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A Handbook for Agriculture Students and Their Advisers



Mumford Hall, College of Agriculture, University of Illinois

THE UNIVERSITY OF ILLINOIS

OCT 6 1966

By *WILLIAM F. ALLEN*

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Urbana, Illinois

1965-1966

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* * * * *

Name of Student: _____

Local Address: _____, _____
 (Number and Street) (Champaign or Urbana)

Home Address: _____

Name of Faculty Adviser: _____

Office Address: _____ Phone: _____

Office Hours: _____



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STUDENT OBJECTIVES

Every student who enters upon a University program should set up an educational goal that fits his abilities and interests and has such appeal for him that he will exert the effort and make the sacrifices necessary to complete his program. Freshman interviews show that most entering students plan to graduate, yet one out of three does not complete his college work. Only a small percentage lack the inherent capacity to complete a well-selected college program with realistic goals based on abilities and interests. Most of those who drop out along the way do so because they have no goals which they are determined to reach.

The importance of setting adequate goals for yourself is shown in the following statement:

"Our skill in reaching objectives may depend in no small degree upon the clarity with which we see them. Once our objectives are clearly visible the appropriate steps for reaching them may be initiated--University objectives are concerned with the whole fabric of higher education rather than the achievement of predetermined and often narrow goals in the shortest possible time. . . . It has been suggested that four of the principal goals of professional education are the production of students possessing at graduation: (1) a minimum body of basic and fundamental knowledge which is commonly possessed by members of the profession; (2) skill in handling source materials and in adding to one's body of knowledge; (3) the ability to think, analyze, and act in the presence of new or unprecedented situations; and (4) an ethical attitude toward the uses to which a member of the profession may put his knowledge and skill."^{1/}

Many students are inadequately motivated because their goals have been too narrowly defined. Hence the basic or fundamental subjects are termed uninteresting and impractical. Selecting courses dealing only with the methods of performing the duties of a particular job, without basing the practical skills on deeply grounded principles, will result in a perishable education. Today's world is characterized by rapid change. Few jobs are done the same way for more than ten years. The more deeply rooted your understanding, the less likely you are to be uprooted by the swift winds of change.

Student Plans and Student Guidance

The fact that many students arrive at the University with undefined educational goals is not a serious handicap, but it can become serious if they do not begin to set up clear-cut goals in line with their capacities and interests soon after they arrive. Each freshman entering the University of Illinois is given a battery of guidance tests to help him enter upon and follow an educational program suited to his abilities. But tests alone are not enough. The goals you set must be individually chosen and must command your interests, loyalties, and devotion to the point where the effort and sacrifice necessary to attain them will be exerted.

The table on the following pages shows the range and pattern of employment normally undertaken by graduates in agriculture. It is an actual record of jobs held in 1960 by graduates. Information about trends in employment and current calls for trained personnel can be obtained from the Associate Dean's Office, 104 Mumford Hall, or from your faculty adviser.

^{1/} Report of the Special Committee of the National Association of State Universities to Study Postwar Educational Problems--Mimeograph, 1944.

The University has provided the following five main agencies to give you help and guidance in selecting and planning your individual program:

1. The Student Counseling Service, 206 Student Services, administers and interprets tests concerned with the students' abilities, interests, and personality. Professional help with study habits, reading skills, and personal problems is also available.
2. The Faculty Adviser, a member of the teaching staff who is chosen by the student or assigned by the Associate Dean's office, helps the student with the ordinary problems of course selection and individual activities. Each faculty adviser serves only as many students as he can know well. If you fail to become acquainted with your adviser, the purpose of the advisory plan is defeated. Your faculty adviser is glad to assist you--make use of him.

It is particularly important for you to seek the counsel of your faculty adviser before and during registration in order that your program may be carefully planned. Occasionally students turn to anyone who will sign a study list. This is likely to result in a short-sighted semester program which will not lead directly toward your objective.

A faculty adviser is assigned to new freshmen without consultation, because the freshmen usually are not acquainted with members of the staff. During the second year, the student is invited to select his own adviser with the help of the staff in the Associate Dean's office. If at any time you wish to change programs or advisers, you should come to the Associate Dean's office.

3. The Instructor is a specialist in his field, well acquainted with the subject matter and its related employment opportunities. Do not hesitate to discuss your problems with your instructors. They are here to serve you. They can provide channels through which you may see new opportunities. To locate instructors, use the Staff Directory.
4. The Dean and the Associate Dean of the college are responsible for administering student programs and for keeping records. The Associate Dean's office is the principal center for information about college and university regulations, grade requirements, credits to be earned, honors, employment opportunities, and many other facts concerning your educational progress. You should feel free to call on this office with any problem on which you feel you need help.
5. The office and personnel headed by the Dean of Students, Dean of Men, Dean of Women, and Director of the Housing Division, all located in the Student Services Building, and the Director of Health Service (Health Center--McKinley Hospital), are ready to serve all students, particularly with relation to personal problems outside the area of formal education.

JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1960*

Job title	Graduates		Salary	
	No.	% of total	No. re- porting	Average salary
EDUCATIONAL WORKERS				
College Teachers (total)	147	5.11	125	\$ 8,488
Graduate Assistants	44	1.53	36	4,167
Assistant and Associate Professors	40	1.39	39	8,538
Professors	63	2.19	50	11,560
College Administrators	17	.59	13	13,000
Farm Advisers	86	3.00	79	8,646
Assistant Farm Advisers, Youth Assistants	41	1.43	41	5,902
Extension Directors and Extension Specialists	41	1.43	40	9,775
School Principals or Superintendents	25	.87	22	9,500
Grammar School Teachers	9	.31	7	5,000
High School Teachers	258	8.97	258	6,853
Total Educational Workers	624	21.71	585	7,792
PROFESSIONAL TECHNICIANS				
Agronomists	16	.55	15	10,000
Soil Conservation Service	68	2.37	63	7,697
Chemists	24	.83	23	8,520
Economists and Statisticians	47	1.64	43	10,535
Engineers (Agriculture and Others)	37	1.29	34	9,294
Natural Scientists	25	.87	24	9,042
Farm - Home Supervisors	14	.48	13	7,461
Landscape Architects	10	.34	8	9,750
Inspectors	33	1.15	29	7,275
Total Professional Technicians	274	9.52	252	8,741
FARMERS AND FARM MANAGERS				
Farmers (total)	580	20.35	491	6,782
Owner-Operators			99	8,333
Partnerships			85	6,224
Part Owners			108	7,907
Tenants			199	5,648
Farm Managers	72	2.51	66	9,287
Total Farmers and Farm Managers	652	22.86	557	7,079

*The reader should bear in mind that these figures are as reported in 1960 and do not reflect an estimated 15 percent increase in salaries which has taken place since that time.

JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1960 - Cont.

Job title	Graduates		Salary	
	No.	% of total	No. re- porting	Average salary
BUSINESS AND INDUSTRY				
Accountants	6	.20	5	\$13,200
Advertising	12	.41	12	11,583
Appraisers, Real Estate	19	.66	17	8,059
Bankers	11	.38	11	7,818
Brokers, Real Estate	15	.52	13	14,231
Business Executives and Owners	186	6.53	167	17,904
Buyer, Livestock Products and Grain	10	.34	7	10,143
Clerks	11	.38	9	5,222
Consultants	6	.20	5	17,400
Credit Managers	29	.97	29	9,516
Educational Directors	29	1.01	25	10,760
Fieldmen	63	2.19	63	7,000
Florists, Horticulturists	28	.97	21	9,619
Insurance General Agents	12	.41	11	13,273
Laboratory Technicians	10	.34	10	5,400
Managers of Businesses	194	6.81	176	11,165
Organization Directors	5	.17	5	6,000
Salesmen	143	5.03	129	8,729
Sales Managers	84	2.93	79	10,937
Research Directors	38	1.32	35	12,628
Research Workers	20	.69	20	6,500
Total Business and Industry	931	32.46	849	11,488
MISCELLANEOUS PROFESSIONS AND OTHERS				
Physicians and Dentists	10	.34	9	22,222
Veterinarians	12	.41	11	12,636
Lawyers	19	.66	19	11,105
Clergymen	13	.45	11	5,727
Public Officials	13	.45	8	9,875
Armed Forces (commissioned)	55	1.91	45	7,511
Armed Forces (non-commissioned)	38	1.32	14	3,143
Airplane Pilots	5	.17	5	17,000
Editors	7	.24	6	8,333
Miscellaneous ^{1/}	212	7.50	80	8,813
Totals	384	13.45	208	9,202
GRAND TOTAL	2865	100.00	2451	9,224

^{1/} Includes all occupations having four reports or less.

EXAMPLES OF EMPLOYMENT AND SALARIES
JUNE 1965 UNIVERSITY OF ILLINOIS COLLEGE OF AGRICULTURE GRADUATES

This summary includes 113 men and 2 women who completed work for the Bachelor of Science degree in June 1965.

The average annual salary reported was \$6,109. Average starting salaries reported by graduates in previous years are shown below:

1964 - \$5,911	1961 - \$5,200
1963 - \$5,585	1960 - \$4,950
1962 - \$5,245	1959 - \$4,676

<u>Initial Employment or Status</u>	<u>Number</u>	<u>Percent</u>
<u>Professional Advancement</u>	55	48
Graduate work, law school		
Veterinary medicine, additional		
Undergraduate		
<u>Military Service</u>	12	10
<u>Agricultural Business and Industry</u>	13	11
Sales and service (feed, fertilizers, adhesives, agricultural chemicals, food industry)		
<u>Farming</u>	10	9
<u>Educational Work</u>	9	8
Vocational agriculture teaching, extension work		
<u>U. S. Government</u>	3	2
Forest Service, USDA, S.C.S.		
<u>Miscellaneous</u>	2	2
<u>Still Available and Undecided</u>	11	10

INCOME AND OCCUPATIONS OF 1960 GRADUATES OF THE UNIVERSITY OF ILLINOIS COLLEGE OF AGRICULTURE FIVE YEARS AFTER GRADUATION

Undergraduate students at the University of Illinois College of Agriculture frequently raise the following questions regarding employment after graduation:

- What is the average starting salary for agriculture graduates?
- How much can I expect to be earning in five years?
- What areas of agricultural employment are expanding most rapidly?
- How often do graduates change jobs within the first five years after graduation?

To get answers to these questions, a questionnaire was sent to the 199 men who received the B. S. degree from the University of Illinois College of Agriculture in 1960. One hundred thirty-four alumni returned the completed questionnaire, a response of 67.3 percent.

Some Highlights

In 1965, incomes of the 1960 graduates who responded averaged \$7,828 a year, an increase of 52.8 percent above the reported average starting salary of \$5,122 in 1960. (The average starting salary for June 1965 graduates was \$6,109.)

Agricultural business and industry was the number one job field. Around 50 percent of the 1960 graduates were employed in this area. Nearly 20 percent were in some phase of educational work. Fifteen percent were engaged in farming. Nine percent were professional workers, and 6 percent were doing non-agricultural work.

The graduates in agricultural business and industry were the best paid. Their average salary was \$8,004 per year, which was nearly \$200 more than the average for all who responded.

Thirty-six percent of the respondents were working in their original jobs. Twenty-nine percent were working in their second jobs, 10 percent had changed jobs three times, and 5 percent had made four job changes.

During the past five years, four of the 1960 graduates had received Ph.D degrees, while seven were working toward their doctorates. Twenty-seven had earned master's degrees, and two had earned law degrees.

Business and Industry

(66 respondents, or 50 percent - average salary, \$8,004)

Farm supplies, fertilizers and chemicals	12
Machinery	7
Seed	5
Feed	7
Publishing	1
Automobile manufacturing	1

Insurance	6
Banking and credit	4
Meat industry	3
Dairy industry	3
Steel industry	2
Food industry	6
Grain industry	1
Animal health	2
Advertising	1
Data processing	1
Farm organization	2
Nursery	2

Slightly more than two-thirds of those in business and industry were involved in either sales or management jobs.

Education

(26 respondents, or 20 percent - average salary, \$6,807)

Vocational agriculture teachers	10
Extension workers	4
High school science teacher	1
High school guidance counselor	1
High school music teacher	1
College teachers	6
Graduate assistants	3

It should be noted that some of those in educational work had spent from one to three years in graduate work and therefore entered full-time employment somewhat later than others.

Farming

(21 respondents, or 15 percent)

Average size of farm -- 406 acres
Average income -- \$7,276

Professional Workers

(12 respondents, or 9 percent - average salary, \$7,811)

Farmers Home Administration	1
Soil Conservation Service	3
USDA	2
Federal Land Bank	1
Geological Survey	1
Research work	1
U. S. Forest Service	2
Public Health	1

Non-Agricultural Employment (9 respondents, or 6 percent)

Military	4
Lawyer	2
Miscellaneous	3

Although no attempt was made to analyze the data, the following general conclusions can be drawn:

The shift toward greater employment in the business and industrial phases of agriculture is evident. Nearly half of all those who replied to the questionnaire were employed in this category. Similar results were reported in a survey made in 1960 of all alumni of the University of Illinois College of Agriculture. At that time 31 percent were employed in business and industry compared with 26 percent in this field in 1950.

Demand for young men in all agricultural areas remains strong. Vocational agriculture teachers and extension workers are always in great demand. The importance of and interest in agricultural production is indicated by the fact that nearly 15 percent of the 1960 graduates were farming in 1965. Government agencies and other employers are constantly requesting graduates to fill professional jobs in agriculture.

Opportunities for young men with interest in agriculture continues to expand. People who are in a position to counsel young people, both rural and urban, should emphasize these opportunities. Agriculture offers many interesting and rewarding careers.

Students who have questions about career opportunities are invited to talk with Assistant Dean Warren K. Wessels, 104 Mumford Hall.

CURRICULA AND MAJORS AS EDUCATIONAL PROGRAMS

The College of Agriculture has, excluding home economics, eleven curricula with various majors or options leading to degrees.

The curricula are:

1. Core curriculum in Agriculture with majors in
 - a. Agricultural Economics
 - b. Agricultural Mechanization
 - c. Agronomy
 - d. Animal Science
 - e. Dairy Science
 - f. Horticulture
 - g. General Agriculture
2. Curriculum in Agriculture with major for teachers of Vocational Agriculture
3. Agricultural Communications
4. Agricultural Industries
5. Agricultural Science with options in:
 - a. Animal, plant, or soil science
 - b. Agricultural economics, rural sociology, or agricultural law
 - c. Agricultural engineering--five-year combined program in Agricultural Science and Agricultural Engineering
6. Dairy Technology
7. Floriculture and Ornamental Horticulture
8. Food Science
9. Forest Production
10. Wood Technology and Utilization
11. Preveterinary Medical Program
12. Restaurant Management

Curricula are educational programs carefully planned to guide students whose educational goals are within certain related areas. They contain:

1. The basic skills or foundation courses required of all students, such as rhetoric and physical education.
2. A minimum content of general education, in the biological, physical, and social sciences, and the humanities, widely held to be essential in any program of college education.
3. The additional basic sciences, including mathematics.
4. Applied courses leading to professional attainments sufficient to permit entrance to some field of professional work or more advanced training on the graduate level. Students planning graduate study should consider the curriculum in agricultural science (pages 57-63).

The following pages present the agricultural curricula and majors in outline form suitable to use as guides or check sheets. Each student should use the appropriate curriculum page to record his progress. As each course is completed, the grade can be inserted, and it will then be possible to determine the remaining requirements. When the student reaches the junior level, the Associate Dean's office sends him a check sheet showing the work yet to be completed before graduation.

The core curriculum in agriculture includes a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors, or the vocational agriculture major; or he may continue with a broad general program by selecting the general major. This curriculum is broad and flexible, with sufficient electives and majors to meet the specific needs of different students.

The curriculum in agricultural industries is designed to prepare students for careers in those industries and businesses that service or are related to agriculture. It provides a broad selection of courses in agricultural sciences, natural sciences, economics and other social sciences, business administration, finance, communication, and the humanities. Because of the similarity of courses during the first two years, students may readily transfer from the core curriculum to the agricultural industries curriculum at any time during the first two years.

The curriculum in agricultural science is suited to those students desiring a stronger foundation in science, mathematics, or engineering, and it is especially recommended for all students expecting to do graduate study or enter upon advanced technical work in an agricultural industry. A student selecting the curriculum in agricultural science should ask for assignment to a faculty adviser in his field of special interest. Ordinarily this should be done by the beginning of the sophomore year.

The preenterinary medical program is designed to prepare students for admission to the College of Veterinary Medicine. Students entering from high school must rank in the upper half of their graduating class. They must maintain at least a 3.5 average to remain in the program and be admitted to the College of Veterinary Medicine.

The purposes of the curricula in agricultural communications, dairy technology, floriculture and ornamental horticulture, food science, forest production, restaurant management, and wood technology and utilization are indicated by their names. The student should refer to the University of Illinois Undergraduate Courses Bulletin for course descriptions.

All students should secure and keep for reference the booklet "Regulations Applying to Undergraduate Students." This booklet contains many items of information useful to all students in the University. Also see probation and drop rules, pages 16-17 of this "Handbook."

Requirements for Graduation

Students who have satisfied the general University requirements for graduation, have maintained throughout their course a satisfactory record of scholarship and moral character, and have completed a curriculum in the College of Agriculture, including the prescribed studies and sufficient electives, are graduated with the degree of Bachelor of Science.

The total credit hour requirements for the various degrees are: in floriculture and ornamental horticulture, 130 hours; in food science, 130 hours; in forestry, 136 hours; and in all other agriculture curricula, 126 hours. No credit in physical education courses may be counted in arriving at these totals. (See credit limitations below.) Credits earned in military science may be counted toward graduation in all curricula.

A candidate for graduation must complete all special examinations to remove failures, all proficiency examinations, all excused grades, and all course substitutions by the beginning of the tenth week of his final semester.

Students who have transferred from other educational institutions to the University of Illinois and who are candidates for the degree of Bachelor of Science in an agricultural curriculum are required to complete in residence at least half the technical agriculture credit required for the degree. Transfer students must also complete their senior year, of not less than thirty semester hours, in residence at the University of Illinois.

Each candidate for graduation must have an average of not less than 3.0 including grades in courses transferred from other institutions, and an average of not less than 3.0 in all courses taken at the University of Illinois.

Credit Restrictions. Any student entering the College of Agriculture for the first time after September 1, 1958, may not count work taken in physical education toward any degree in the College of Agriculture. Grades in physical education are not included in the student's average. This restriction does not apply to courses listed under the department headings of dance, health and safety education, and recreation.

No more than 15 credit hours in approved Institute of Aviation courses may be counted toward a degree in agriculture.

No typing or shorthand courses, not more than two hours of credit in music ensemble courses, and not more than ten hours of credit in religion may be counted toward graduation.

No credit toward graduation will be given for Math. 101 and/or 102.

Not more than ten hours of credit in special problems courses may be counted toward graduation in agriculture and home economics curricula.

Computation of Grade-Average. All students must attain a grade-point average of not less than 3.0 ("C") to qualify for the B.S. degree. All resident and transferred work (except physical education) is included in the computation of grade averages. This includes grades of "E" (failure), "ab" (absent), and "dr" (dropped). All grades including "E", "ab", or "dr" always remain in the over-all average, even though the student repeats the course. Grades of "ab" and "dr" are equivalent to "E".

If a course is repeated, both the original and subsequent grades are included in the average. (Example: If a student has completed a course with a grade of "D" and obtains the Associate Dean's permission to repeat the course, and upon second registration receives a grade of "C", both grades will be used in computing the over-all average. Credit is, however, given only once for the same course.)

Honors Program

Encouragement of superior students has always been an aim of the College. The College participates in the University Honors Program, and has established five special honors seminar courses for outstanding students. The College Honors Council

invites selected freshmen and sophomores to participate. Upper classmen who have maintained a 4.0 ("B") average are automatically eligible for participation. These same students are also eligible for honors courses and honors sections offered by other colleges of the University and for certain other activities and privileges offered to James Scholars.

Registration in Special Problems Courses. Courses offered by the various departments under the heading or classification of Special Problems may serve one or more of the following purposes:

1. An opportunity for students to test their abilities for research and individual study.
2. A means of studying a subject-matter area or problem not covered by a formal course offering.
3. A means of making a contribution to the departmental research program in a limited manner.

The following minimum prerequisite has been adopted by the departments concerned for registration in Agricultural Economics 200, Agronomy 300, Agricultural Engineering 300, Animal Science 200, Dairy Science 300, Dairy Technology 200, Horticulture 200, and Plant Pathology 300:

"Minimum grade point average, 3.5; not open to students on probation; consent of the instructor and head of the department."

A special registration form must be secured from the Associate Dean's Office for each registration in a special problem course. Exceptions to the stated prerequisite may be made in unusual cases.

General University Requirements

Certain courses, such as rhetoric and physical education, are required for all students. Unless specifically exempted, each student is expected to register for these courses each semester until he has completed the requirements in each.

Rhetoric. Satisfactory proficiency in the use of written English is a requirement for graduation. Students who receive grades of "C" or "D" in Rhetoric 102 (or its equivalent) are required to pass an English qualifying examination before graduating.

Military and Physical Education. Students entering the University with less than sixty semester hours of credit are required to secure four semesters of credit in physical education. Those who enter the University with sixty or more semester hours of credit are exempt from the requirement in physical education. Military science is optional for all students effective September, 1964.

GENERAL EDUCATION SEQUENCES

All College of Agriculture students who enter the University after June 1, 1964, are required to complete sequences of courses in the areas of natural sciences, humanities, and social sciences.

Agriculture students satisfy the natural sciences requirement by completing a curriculum of the College.

HUMANITIES

All students must complete one six hour sequence from the approved courses within a departmental sequence or from an interdepartmental sequence. Some curricula prescribe certain courses which, if on the approved sequences list, may be used toward completion of this sequence requirement.

Departmental Sequences - Humanities

Architecture - Six hours from the following courses: 113, 214, 215, 216.

Art - Six hours from the following courses: 111, 112, 115, 116, 211, 308, 309, 310, 311, 313, 314, 315, 318, 319, 320, 321, 322, 323, 324.

Classics - 301 and 302.

Division of General Studies - 161 and 162.

English and American Literature - Six hours from any courses except 387.

History - 323 and 324.

Humanities - 151 and 152, 211 and 212, 215 and 216, 363 and 364.

Literature in Foreign Languages - Six hours from 103, 104, (or equivalents), or any 200- or 300-level literature courses in foreign languages.

Music - Six hours from the following courses: 110, 113, 115, 130, 131, 213, 214, 315, 316, 317.

Philosophy - Six hours from the following courses: 101, 102, 105, 110, any 300-level courses.

Speech and Theatre - Six hours from the following courses: 361, 362, 366.

Interdepartmental Sequences - Humanities

Architecture 113 and Art 115 and 116.

Architecture 113 plus 2 courses from Classics 111, 112, 361, 362.

Art 111, 112, or 115 plus Philosophy 323.

Any 3 courses from Art 115, 116, Music 110, 113, and 115.

Classics 111 and Philosophy 303.

English 102, 281, 282, or 316, plus Speech 366.

SOCIAL SCIENCES

1. Each student must complete one six hour sequence from the following approved courses within a departmental sequence or from an inter-departmental sequence.
2. A minimum of nine hours of social sciences are required in all curricula of the college and some curricula require more than nine hours of social sciences.
3. Unless otherwise prescribed, the additional hours of social sciences beyond the sequences may be selected from any course or courses listed under the departmental sequences, interdepartmental sequences, or supplemental list, with the further provision that at least one course must be selected from a department other than the one from which the sequence was selected.
4. Some curricula prescribe certain courses which, if on the approved sequence list, may be used toward completion of this sequence requirement.

Departmental Sequences - Social Sciences

Anthropology - Six hours from the following courses: 102, 103, 151, 160, 252, 270, 271, 320, 360, 361, 362, 363, 366, 367, 368, 381, 382.

Division of General Studies - 121 and 122, 151 and 152.

Economics - Six hours from the following courses: 102 or 108, 103, 109, 200, 214, 218, 228, 238, 240, 255, 288, 300, 301, 306, 312, 313.

Geography - Six hours from the following courses: 101, 104, 105, 381, 382.

History - Six hours from the following courses: 111, 112, 131, 132, 151, 152, 181, 182, 211, 212, 260, 261, 262.

Political Science - Six hours from the following courses: 150, 151, 184, 191, 192, 263, 305, 310, 312, 317, 321, 326, 328, 345, 346, 351, 355, 357.

Psychology - Six hours from the following courses: 100 or 103, 101, 150 or 250, 255.

Sociology - Six hours from the following courses: 100, 104, 105, 131, 212, 218, 221, 223, 225, 228, 229, 275, 276, 277, 370.

Interdepartmental Sequences - Social Sciences

Econ. 108 and Pol. Sci. 150 and History 151, 152, 261, or 262.

Econ. 108 and Psych. 100 or 103 and Soc. 100.

Econ. 108 and Geog. 105.

Supplemental list of courses in the social sciences (may not be used as part of the six-hour sequence, but may be used toward social science requirement beyond the sequence.

Geography 214, 386.

Philosophy 103, 104.

Social Sciences 201, 301.

Mathematics Requirement

The standard mathematics requirement for admission to the College of Agriculture is one year of high school algebra and one year of high school geometry. Because of the increasing importance of mathematics in everyday life and in most professions, including agriculture, the faculty of the College recommends that students include as much additional mathematics in their high school programs as possible.

A minimum of one course in college algebra is required for graduation in all agriculture curricula, unless the student is exempted by the mathematics placement examination.

Students in certain curricula are required to complete additional mathematics. Others are encouraged to take more than the minimum requirement in accordance with their objectives.

To insure that entering students will be placed in the appropriate college mathematics course, a mathematics placement test is required. This test is to be taken by all students entering the College of Agriculture unless exempted (see below). It is not a proficiency examination. No credit toward graduation will be given to students who pass it. Those who make a sufficiently high grade will be exempt from the algebra requirement and, if they wish or if their curriculum requires it, they may begin college mathematics with a more advanced course, such as trigonometry or analytical geometry.

The mathematics placement test is given at regularly scheduled times during the late spring and early summer and during the registration periods in September and February. Entering students are notified of the time and place when they apply for admission and receive their permits to enter.

The mathematics placement test should not be confused with entrance examinations. Entrance examinations are offered several times each year and are taken by applicants who need to remove deficiencies in specific subjects for admission.

Exceptions

Students who enter with acceptable equivalent college credit in algebra are exempt from the mathematics placement test.

RULES FOR REMEDIAL ACTION

Probation and Drop Regulations as approved by the College of Agriculture
Faculty, October 19, 1962

All colleges find it necessary to establish standards of successful performance. The faculty of the College of Agriculture has established the following rules for remedial action for cases in which the level of performance is not commensurate with the expenditure of time and money by the student and the provision of facilities and faculty by the University.

PROBATION RULES

The following Probation Rules apply, provided the student is not subject to Drop Rules (see below).

Rule 1 - Failure to attain an average of 3.0 ("C") in the last semester or term of attendance at the University of Illinois.

Rule 2 - Failure to have earned a cumulative College or University of Illinois average of at least:

- (a) 2.8 for less than 30 hours attempted
- (b) 2.9 for 30 to 59 hours attempted
- (c) 3.0 for 60 or more hours attempted

Rule 3 - Continuance on probation. Any student who is not subject to Drop Rules, but whose cumulative College or University of Illinois average is less than 3.0, may be continued on probation, provided he has met the minimum probation level established for him for his last semester or term of attendance.

The probation level, i.e., grades required in the next semester or term, shall be established by the Associate Dean.

Clearance From Probation

If at the end of a semester on probation a student has met or exceeded all minimum conditions as outlined above, he shall be removed from probation. A student who completes less than six semester hours in the summer session may not clear probation by summer session attendance.

The Associate Dean is authorized by the faculty to waive the application of the above probation rules in unusual cases in which these rules would be unfair to the student.

DROP RULES - Dismissal for Scholastic Deficiency

Any student who fails to make satisfactory academic progress may be dismissed from the College and University in accordance with the following rules:

- Rule 1 - Failure to attain an average of 2.0 ("D") or better in any semester or summer session.
- Rule 2 - Failure to attain an average which clears the probation level established by the Associate Dean.
- Rule 3 - Repeated failure to attend classes, or other conduct unbecoming a University student.

Admission or Readmission on Probation

Any student who has been placed on probation or dropped from any other college or university or has been dropped from the College of Agriculture for poor scholarship may be admitted or readmitted only by petition to the Associate Dean. Immediate readmission will be granted only in exceptional cases for which there is good evidence that the cause of low scholarship has been corrected.

If granted admission or readmission, the student shall be on probation, the terms of probation to be fixed by the Associate Dean. Appeals from the Associate Dean's rulings may be made in writing to the College Committee on Scholastic Status.

Students dropped or placed on probation at the University of Illinois do not clear their drop or probation status by attendance at another college of university.

CORE CURRICULUM IN AGRICULTURE

This is a core curriculum in the sense that it provides for a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors or he may continue with a broad general program by selecting the general agriculture major. All students in agriculture pursue a similar general core program for the first two years except those in Agricultural Science, Dairy Technology, Floriculture and Ornamental Horticulture, Food Science, Forestry, Home Economics, Preveterinary Medical, and Restaurant Management.

Freshmen may enter this core curriculum without specifying a major. Transfer students entering this curriculum with 45 or more credit hours should indicate their proposed major on the Application for Admission blank. Each student must make his choice of major not later than the beginning of the junior year and notify the College office of his choice.

The purposes, objectives, and requirements of the various majors and options are outlined on the following pages.

The core program for the first two years includes all general University requirements as well as a broad foundation in basic sciences essential to a fuller understanding of agriculture. In addition, the student has a choice of introductory courses in agriculture. By proper choice of basic courses, in line with the student's ultimate objective and major, the student is ready to proceed with more advanced courses in his junior and senior years. Agriculture 100, required of all freshmen in agriculture, is designed to assist the student in clarifying his objectives.

Upon completion of all requirements of this curriculum, with an approved major and a minimum of 126 semester hours of credit, the student is awarded the degree of Bachelor of Science in Agriculture.

Transfers should note that no credit is allowed for Agricultural Economics 100 for students with 60 or more credit hours. Agricultural Economics 220 or 230 may be substituted for Agricultural Economics 100, and may be counted toward the nine hours required in agriculture provided the course taken as a substitute is not needed to fulfill some other agriculture group requirement in the major or option.

Each student is encouraged to study the requirements of the various majors and options and to select the one which best fits his objectives prior to the beginning of his junior year. An appropriate adviser will then be assigned to assist him in planning his program for the junior and senior years.

Recommended or suggested electives are listed with each major. They are listed as a guide. Other courses than those shown may be taken as electives if more appropriate for the student's objective.

A general major is provided for those whose objectives do not properly fall within one of the approved departmental majors. Those who are preparing to teach vocational agriculture in high school must complete the curriculum with a major in vocational agricultural.

For the degree of Bachelor of Science in Agriculture

Sample Program for First Two YearsFirst Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lectures for Freshmen ^{1/}	0	Agriculture Core Course	3-4
Math. 111, 112, or 104--Alg. or Alg. and Trig. ^{2/}	3-5	Bot. 100--Gen. Bot., or Zool. 104-- Elem. Zool.	4
Agriculture Core Course	3	Chem. 101, 102, or 111-- Gen. Chem. ^{4/}	3-5
Bot. 100--Gen. Bot., or Zool. 104-- Elem. Zool.	4	Rhet. 102--Rhet. and Comp. ^{3/}	3
Rhet. 101--Rhet. and Comp. ^{3/}	3	Physical Education	(1)
Physical Education	(1)		
Total	14-16	Total	14-17

Second Year

Agriculture Core Course	3-4	Agriculture Electives	6
Chem. 132 or 133--Organic Chem. ^{4/}	3-5	Econ. 108--Elem. of Economics	3
Geology 105--Agric. Geology	4	Social Sciences, Humanities, or Electives ^{5/}	6
Social Sciences or Humanities ^{5/}	0-3	Physical Education	(1)
Speech 101--Prin. of Eff. Speak. ^{3/}	3		
Physical Education	(1)		
Total	15-17	Total	16

Agriculture Core Courses. In addition to Agriculture 100, one course from three different areas of the four areas listed below must be completed by each student in this curriculum and its related majors.

	<u>Hours</u>
<u>Agricultural Economics:</u>	
Agr. Econ. 100--Introductory Agricultural Economics	3
<u>Agricultural Engineering and Technology:</u>	
Agr. Eng. 100--Engineering Applications in Agriculture <u>or</u> Food Sci. 201--Principles of Food and Dairy Product Processing	3
<u>Animal Sciences:</u>	
Animal Science 100--Introduction to Animal Science, or Dairy Science 100--Introduction to Dairy Production	3
<u>Plant Sciences:</u>	
Agronomy 121--Principles of Field Crop Science, or Forestry 100--Farm Forestry, or Horticulture 100--Introductory Horticulture	4-3

Each student is urged to complete one core course per semester for each of the first three semesters. This will permit the student to select agriculture electives in the fourth and succeeding semesters from those agriculture courses which are specifically prescribed for his major, such as Agronomy 101, Animal Science 110, Dairy Science 120, etc.

1/, 2/, 3/, 4/, 5/ - For footnotes see next page.

Third and Fourth Years

For the third and fourth years, see approved majors. The general requirements in addition to the courses listed for the first two years include completion of:

1. All prescribed courses listed for the major.
2. At least forty hours of agriculture courses, including prescribed and elective.
3. An approved six hour sequence in the humanities and an approved six hour sequence in the social sciences (see pages 13-14).
4. Sufficient open electives to bring the total hours to 126, exclusive of physical education.

Humanities and Social Sciences Sequences

See pages 13-14.

- 1/ A noncredit orientation course required of all freshmen in agriculture.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. (Mathematics 104 does not serve as a prerequisite for more advanced courses in mathematics and should not be taken by those who plan to take Mathematics 114, 122, or 123, including those who plan to major in agricultural economics general option or agricultural mechanization major.) A student who passes the placement examination will not be required to take Mathematics 111, 112, or 104, but if he wishes he may take a more advanced course in mathematics. Students who enter the core curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics. See page 12 for additional details.
- 3/ Division of General Studies 111 and 112 may be substituted for Rhetoric 101, 102 and Speech 101.
- 4/ One course in organic chemistry is required. For students preparing for graduate training in animal, plant, or soil science, Chemistry 101 or 102 and Chemistry 105 and 133 are recommended. Advisers may recommend this chemistry sequence for other students, where appropriate to their aims and objectives, in place of Chemistry 111 and Chemistry 132. Chemistry 111 and Chemistry 132 are terminal courses and satisfy the minimum chemistry requirements for graduation. Chemistry 105 is a prerequisite for Chemistry 133. Chemistry 132 is not a satisfactory prerequisite for Chemistry 350, 354, and 355, Biochemistry.
- 5/ See pages 13 - 14 for approved courses.

Core Curriculum in Agriculture, cont.

MAJOR IN AGRICULTURAL ECONOMICS--FARM MANAGEMENT OPTION

This option is designed particularly for persons interested in farming or in managing agricultural properties for others. It is also appropriate for men interested in agricultural positions with banks, credit agencies, and other agricultural institutions.

For core requirements, see page 19. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 ¹ --Introductory Agricultural Economics (I, II)		3
An. Sci. or Da. Sci. 120--Principles of Animal Nutrition (I, II)		3
Agronomy 101--Introductory Soils (I, II)		4
Agr. Economics 220--Farm Management (I, II)		3
Agr. Economics 324--Farm Operation (II)		3
Agr. Economics 325--Advanced Farm Management (I)		3
Additional Agricultural Economics		8

Elective Courses in Agriculture to bring total Agriculture to a minimum of forty hours

Humanities: An approved sequence (see page 13). 6

Social Sciences: (see page 14). Must include the following:

Economics 200--Economic Analysis for Business <u>or</u>	
Economics 300--Intermediate Micro-Economic Theory	3
Approved Social Science elective	3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 230, 302, 303, 305, 312, 341, 342
 Agricultural Engineering 252, 272
 Agronomy 301, 303
 Animal or Dairy Science (one or more courses)
 Entomology 101
 Rural Sociology 117 (students with credit in Soc. 100 may wish to substitute Rural Soc. 270, or 277)

Suggested Non-Agriculture Electives

Accountancy 201
 Economics 171 or 172
 Geography 105
 History 152
 Mathematics 114
 Philosophy 101, 102
 Political Science 150
 Psychology 100, 255
 Rhetoric 151 or 251

1/ Juniors or seniors should substitute Agr. Econ. 230.

Core Curriculum with Major in AGRICULTURAL ECONOMICS
Farm Management Option
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	8 HOURS OF AGR. ECON. ELECTIVES (Total Agr.Econ.must equal 20 hours)	
Agr. 100	0			
Agr. Econ. 100	3			
Two courses from:				
Agr. Eng. 100				
or Food Sci. 100				
Agron. 121, or For. 100,				
or Hort. 100				
An. Sci. 100 or				
Da. Sci. 100				
-----			AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 40 hours	At least 20 hours of Agr. must be com- pleted in residence.
Agr. Econ. 220	3			Transfer:
Agr. Econ. 324	3			Residence:
Agr. Econ. 325	3			Earned:
Agron. 101	4			To be earned:
An. Sci. 120 or	3			
Da. Sci. 120				
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4			
Chem. 101, 102, or 111	3-5			
Chem. 132 or 133	3-5		HUMANITIES-Six Hour Sequence	Sequence Courses
Geology 105	4			
Math. Placement Test or	3-5		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including:	Sequence Courses
Math. 111, 112, or 104			Econ. 108 3	
			Econ. 200 or 300 3	Second Dept.
Rhetoric 101	3			
Rhetoric 102	3			
			OPEN ELECTIVES	TOTAL HOURS
Speech 101	3			
Zoology 104	4			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work. 5/1/64

Core Curriculum in Agriculture, cont.

MAJOR IN AGRICULTURAL ECONOMICS--AGRICULTURAL MARKETING OPTION

Students interested in marketing farm products and farm supplies may major under this option. Numerous opportunities exist for agricultural college graduates in salesmanship, in price analysis, and in the management and operational phases of agricultural and related businesses.

For common core requirements, see page 19. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 ^{1/} --Intro. Agricultural Economics, (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Six hours from the following:		
Agr. Economics 238--Distribution of Farm Supplies (II)		3
Agr. Economics 331--Grain Marketing (I)		3
Agr. Economics 332--Livestock Marketing (II)		3
Agr. Economics 334--Marketing of Dairy Products (II)		3
Agr. Economics 335--Economics of Food Distribution (I)		3
Additional Agricultural Economics		8
Elective courses in Agriculture to bring total Agriculture to a minimum of forty hours		
<u>Humanities:</u> An approved sequence (see page 13).		6
<u>Social Sciences:</u> (see page 14). Must include the following:		6
Econ. 200--Economic Analysis for Business		3
Econ. 300--Intermediate Economic Theory and Analysis		3
<u>Non-Agriculture Prescribed</u>		
Accountancy 201--Fundamentals of Accounting (I,II)		3
Rhetoric 151--Business Letter Writing (I,II)		
or Rhet. 251--Letter Writing		3
A course in Statistics ^{2/}		3
<u>Open Electives to Bring Total Hours to:</u>		126
<u>Suggested Agriculture Electives</u>		
Agricultural Economics 220, 305, 341, 342		
Agonomy 303, 321		
Animal Science or Dairy Science (one or more courses)		
Food Technology 260 or Animal Science 104		
Horticulture 242 or 262		
Rural Sociology 117 ^{3/} or 277		
<u>Suggested Non-Agriculture Electives</u>		
Geography 105		
Marketing 201 or 211		

- ^{1/} Juniors and seniors should substitute Agr. Econ. 220 for Agr. Econ. 100.
- ^{2/} If Agr. Econ. 341--Agricultural Statistics, or Agron. 240--An Introduction to Applied Statistics, is used to satisfy the requirement of a course in statistics, Agr. Econ. 341 may also be counted toward the 8 hours of Agr. Econ. electives, and Agron. 240 may also be counted as an Agr. elective.
- ^{3/} Students with credit in Soc. 100 may take Rural Soc. 270, or 277 instead of Rural Soc. 117.

Core Curriculum with Major in AGRICULTURAL ECONOMICS
Agricultural Marketing Option
(for degree of B. S. in Agriculture)

24.

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	6 HOURS FROM: Agr. Econ. 238; 331; 332; 334; 335	
Agr. 100	0			
Agr. Econ. 100	3			
Two courses from:				
Agr. Eng. 100 or F. S. 201			8 HOURS OF AGR. ECON. ELECTIVES	
Agron. 121, <u>or</u> For. 100,			(Total Agr.Econ.must equal 20 hrs.)	
<u>or</u> Hort. 100				
An. Sci. 100 <u>or</u> Da. Sci. 100				At least 20
-----	-----	-----		hours of Agr.
Agr. Econ. 230	3		AGRICULTURE ELECTIVES--Total	must be com-
			Agr. prescribed and electives	pleted in
			must equal at least 40 hours.	residence
NON-AGRICULTURE PRESCRIBED:				Transfer:
Accy. 201	3			Residence:
				Earned:
Botany 100	4			To be
				Earned:
Chem. 101, 102, or 111	3-5			
Chem. 132 or 133	3-5		HUMANITIES-Six Hour Sequence	Sequence
				Courses
Geology 105	4			
Math. Placement Test or				
Math. 111, 112, or 104	3-5			
			SOCIAL SCI.-Six hour sequence and	Sequence
			minimum of 9 hours including:	Courses
Rhetoric 101	3		Econ. 108	3
Rhetoric 102	3		Econ. 200 or 300	3
				Second
Rhetoric 151	3			Dept.
Speech 101	3		OPEN ELECTIVES	
Statistics*	3			TOTAL
				HOURS
Zoology 104	4			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

*See footnote 2, page 23 in the Handbook

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN AGRICULTURAL ECONOMICS--GENERAL OPTION

This option is designed for students who desire training in agricultural economics without specializing in any particular subject-matter area. It is also appropriate as preparation for analytical and statistical work with agricultural businesses or public agencies.

For core requirements see page 19. Other courses required for this option are:

<u>Prescribed courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 ¹ --Intro. Agricultural Economics (I,II)	(I,II)	3
Nine hours from the following:		
Rural Soc. 117--Introduction to Rural Sociology (I,II)		3
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Agr. Economics 302--Financing Agriculture (II)		3
Agr. Economics 303--Agricultural Law (I,II)		3
Agr. Economics 305--Agricultural Policies and Programs (I)		3
Agr. Economics 318--Land Economics (I)		3
Agr. Economics 341--Agricultural Statistics (I)		3
Additional Agricultural Economics		8
Elective courses in Agr. to bring total Agr. to a minimum of 40 hours		
<u>Humanities:</u> (see page 13). Must include one of the following:		
Phil. 101--Introduction to Philosophy		3
Phil. 102--Logic		3
<u>Social Sciences:</u> (see page 14). Must include the following:		
Econ. 200--Econ. Analysis for Business or Econ. 300--Intermed.		
Micro-Economic Theory		3
Pol. Sci. 150--American Government: Organization and Power		3
<u>Non-Agriculture Prescribed:</u>		
Accy. 201--Fundamentals of Accounting (I,II)		3
Math. 114 ² --Plane Trigonometry (I,II)		2
<u>Open Electives to Bring Total Hours to:</u>		126

Suggested Agriculture Electives

Agricultural Economics 312, 324, 325, 342
 Agricultural Economics--one or more commodity marketing courses
 Agricultural Engineering 221
 Agriculture 114
 Agronomy 101, 303
 Animal Science or Dairy Science (one or more courses)
 Rural Sociology 277

Suggested Non-Agriculture Electives

Economics 214
 Psychology 100
 Rhetoric 151 or 251
 Speech 113

1/ Juniors and seniors should substitute Agr. Econ. 220 or 230.

2/ Students in this option who do not pass the Mathematics Placement Test should take Math. 111 or 112, but not 104.

Core Curriculum with Major in AGRICULTURAL ECONOMICS
General Option
(for degree of B. S. in Agriculture)

26.

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

AGRICULTURE PRESCRIBED:		HOURS	GRADE	9 HOURS FROM: Rural Soc. 117, Agr. Econ. 218, 220, 230, 302, 303, 305, 341.	
Agr. 100		0			
Agr. Econ. 100		3			
Two courses from:					At least 20 hours of Agr. must be completed in residence.
Agr. Eng. 100 or F.S.201					
Agron. 121, <u>or</u> For. 100,				8 HOURS OF AGR. ECON. ELECTIVES	
<u>or</u> Hort. 100				(Total Agr.Econ.must equal 20 hrs.)	
An. Sci. 100 <u>or</u>					Transfer:
Dairy Sci. 100				AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 40 hours	Residence:
NON-AGRICULTURE PRESCRIBED:					
Accy. 201		3			Earned:
Botany 100		4			To be earned:
Chem. 101, 102, or 111		3-5		HUMANITIES-Six hour sequence including Phil. 101 <u>or</u> 102	3 Sequence Courses
Chem. 132 or 133		3-5			
Geology 105		4			
Math. Placement Test or Math. 111 or 112		3-5		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including:	Sequence Courses
Math. 114		2		Econ. 108	3
Rhetoric 101		3		Econ. 200 or 300	3
Rhetoric 102		3		Pol. Sci. 150	3
Speech 101		3		OPEN ELECTIVES	TOTAL HOURS
Zoology 104		4			
P.E.-P.E.		(1-1)			
P.E.-P.E.		(1-1)			

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN AGRICULTURAL ECONOMICS--RURAL SOCIOLOGY OPTION

The rural sociology option is designed primarily to prepare students for effective rural group leadership in a variety of organizations and agencies serving agriculture and rural communities.

For core requirements see page 19. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 100 ¹ /--Introductory Agricultural Economics (I, II)		3
Rural Soc. 117 ² /--Intro. to Rural Sociology (I,II)		3
Rural Soc. 277--Rural Social Change (II)		3
Additional Rural Sociology or Agricultural Economics		11

Elective courses in Agriculture to bring total Agriculture to a minimum of forty hours.

Humanities: Approved sequence (see page 13). 6

Social Sciences: (see page 14). Must include the following 9

Econ. 200--Econ. Analysis for Bus. or
Econ. 300--Intermed. Micro-Economic Theory 3
Approved 200 or 300-level sociology courses 6

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 218, 200, 230, 273, 303, 305, 312,
341, 342
Agriculture 114
Agronomy 321
Animal Science or Dairy Science (one or more courses)

Suggested Non-Agriculture Electives

Anthropology 103
Economics 214, 236
Education 315
Geography 104
Philosophy 101
Pol. Sci. 150
Psychology 100, 255
Sociology 185, 212, 270
Speech 113

¹/ Juniors and seniors should substitute Agr. Econ. 220 or 230.

²/ Students with credit in Sociol. 100 should substitute Rural Sociol. 270.

General Curriculum with Major in AGRICULTURAL ECONOMICS
Rural Sociology Option
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 40 hours	
Agr. 100	0			
Agr. Econ. 100	3			
Two courses from:				At least 20 hours of Agr. must be completed in residence.
Agr. Eng. 100 or F.S.201				
Agron. 121, <u>or</u> For. 100,				
<u>or</u> Hort. 100				
An. Sci. 100 <u>or</u>				
Da. Sci. 100				
-----	-----			Transfer:
Rur. Soc. 117	3			Residence:
Rur. Soc. 277	3			Earned:
11 Hours of Rur. Soc. or Agr.				To be earned:
Econ. electives. (Total Agr. Econ. & Rur. Soc. must equal 20 hours.)				
			HUMANITIES-Six Hour Sequence	Sequence Courses
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4			
Chem. 101, 102 or 111	3-5			
Chem. 132 or 133	3-5		SOCIAL SCI.-Six hour sequence and minimum of 12 hours including:	Sequence Courses
Geology 105	4		Econ. 108	3
Math. Placement Test or Math. 111, 112 or 104	3-5		Econ. 200 or 300	3
Rhetoric 101	3		Sociology courses at the 200-300 level:	6
Rhetoric 102	3		OPEN ELECTIVES	TOTAL HOURS
Speech 101	3			
Zoology 104	4			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN AGRICULTURAL MECHANIZATION

For students who are interested in emphasis in the areas of farm structures, conservation, farm power, and farm machinery in preparation for work with service organizations, retail dealers, power suppliers, contractors, farm management companies, or as farm operators.

For common core requirements of this major, see page 19. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 220--Farm Management (I,II)		3
Agr. Eng. 100--Engineering Applications in Agriculture (I,II)		3
Agron. 101--Introductory Soils (I,II)		4
Agron. 121--Principles of Field Crop Science (I,II)		4
Fifteen hours from the following:		
Agr. Eng. 200--Farm Shop: Carpentry and Construction (I,II)		3
Agr. Eng. 201--Farm Shop: Electrical and Metal Work (I,II)		3
Agr. Eng. 221--Farm Power and Machinery Management (I,II)		4
Agr. Eng. 231--Farm Machinery Mechanisms (I)		3
Agr. Eng. 241--Farm Tractor Power (II)		3
Agr. Eng. 252--Mechanics of Soil and Water Conservation (II)		3
Agr. Eng. 272--Farm Buildings (II)		3
Agr. Eng. 281--Farmstead Mechanization (I)		3
Agr. Eng. 300--Special Problems (I,II)		3
Agr. Eng. 361--Development and Function of Family Housing (II)		3
Agr. Eng. 381--Electro-Mechanical Agricultural Systems (II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of forty hours.

Humanities and Social Sciences: An approved six-hour sequence in the humanities and an approved six-hour sequence in the social sciences.
(See pages 13-14.)

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Prescribed Non-Agriculture Courses

Math. 114--Plane Trigonometry (I,II)	2
Physics 101--General Physics (Mechanics, Heat, and Sound) (I,II)	5
Physics 102--General Physics (Light, Electricity, and Magnetism) if organic chemistry is not taken (I,II)	5

Eighteen hours from the following:

Accy. 201, or 101 and 105; Agr. Econ. 238*; Ind. Admin. 101, 221*,
248, 261, 312*; Marketing 201, 211, 272*; Rhetoric 251, 271, and 272*.

Open Electives to Bring Total Hours to:

126

Suggested Agriculture Electives: Ag. Ec. 230, 302, 303, 312, 324, 325, 341, 342; Agron. 110, 303, 304, 322, 326; An. Sci. 120, 201, 220; Entom. 101; For. 273, 274; Rur. Soc. 117.

*Courses approved by department and Courses and Curricula Committee, but not yet given final approval by the University.

NOTE: Agricultural Mechanization majors who anticipate entering a graduate program leading to the Master of Science Degree in Agricultural Economics or Marketing, or the Master's Degree in Business Administration, should plan with their adviser to follow an appropriate sequence of courses beginning preferably in the first term of their sophomore year. The undergraduate program would include additional study in the areas of mathematics, economics, statistics, marketing, and industrial administration. A typical program might be Mathematics 124 and 134 (in place of Mathematics 114), Economics 172 and 200 or 300, and Marketing 201.

Core Curriculum with Major in AGRICULTURAL MECHANIZATION
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	15 HOURS FROM: Agr. Eng. 200, 201, 221, 231, 241, 252, 272, 281, 300, 361, 381	
Agr. 100	0			
Agr. Eng. 100	3			
Agron. 121	4			At least 20 hrs. of Agr. must be completed in residence.
One of the following: Agr. Econ. 100 <u>or</u> An. Sci. 100 <u>or</u> Da. Sci. 100			AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 40 hours	Transfer:
-----	---	---		Residence:
Agr. Econ. 220	3			Earned:
Agron. 101	4			To be earned:
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4		18 HOURS FROM: Accy. 201 <u>or</u> Accy. 101 and 105; Agr. Econ. 238; Ind. Admin. 101, 221, 248, 261, 312; Mktg. 201, 211, 272; Rhet. 251, 271, 272.	Earned:
Chem. 101, 102, or 111	3-5			To be earned:
Chem. 132 or 133 or Physics 102	3-5 5			
Geology 105	4		HUMANITIES-Six Hour Sequence	Sequence Courses
Math. Placement Test or Math. 111, 112, or 104	3-5			
Math. 114	2		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including: Econ. 108	Sequence Courses
Physics 101	5			3
Rhetoric 101	3			Second Dept.
Rhetoric 102	3			
Speech 101	3		OPEN ELECTIVES:	
Zoology 104	4			
P.E.-P.E.	(1-1)			TOTAL HOURS
P.E.-P.E.	(1-1)			

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN AGRONOMY--OPTIONS IN CROPS OR SOILS

This major is designed for students who wish to specialize in crops and/or soils. For those who may desire later to pursue graduate work, adequate training may be obtained by suitable choices of electives within the framework of this major, or in the agricultural science curriculum.^{1/}

For common core requirements see page 19. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Principles of Field Crop Science (I,II)		4
Agronomy 110 ^{2/} --Plant and Animal Genetics (I,II)		3
Agronomy 101--Introductory Soils (I,II)		4
Agronomy 204 ^{2/} --Introductory Plant Pathology (II)		3
Agronomy 303 ^{1/} --Soil Fertility (I)		3
Agronomy 304 ^{1/} --Soil Management and Conservation (II)		3
Agronomy 321--Crop Ecology (I)		4
Agronomy electives (all Agronomy majors must complete twenty hours of Agronomy in addition to Agronomy 121 and 101)		4 to 10

Elective courses in Agriculture to bring total Agriculture to a minimum of forty hours.

Humanities: An approved sequence (see page 13). 6

Social Sciences: (See page 14). Must include one of the following: 6

History 152--History of the U. S. from 1865 to the Present 4

Pol. Sci. 150--American Government: Organization & Powers 3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agronomy courses other than those listed or taken to satisfy the requirements

Agricultural Economics 220, 325, 303

Agricultural Engineering 252

Agronomy 240

Animal Science 201

Suggested Non-Agriculture Electives

Botany 160, 226, 230, 231, 304

Chemistry 105, 122, 354, or 350 and 355

English 304

Mathematics (trigonometry, analytic geometry, and calculus)

Physics 101, 102

^{1/} Students who plan to do graduate work in agronomy-soils should take Agronomy 309 and 310 instead of Agronomy 303 and 304, and they will find it advantageous to plan their programs with their advisers under the agricultural science curriculum.

^{2/} Agronomy 110 and 204 are required in the crops option only.

Core Curriculum with Major in AGRONOMY
Agronomy, Crops, or Soils Option _____
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED:		HOURS	GRADE	OTHER AGRONOMY COURSES--4 hours for Crops option; 10 hours for Soils option; Agron. credits must total 20 hrs. exclusive of Agron. 121 and 101.	
Agr. 100		0			
Agron. 121		4			
Two courses from:					
Agr. Econ. 100 or F.S. 201					At least 20
Agr. Eng. 100					hours of Agr.
An. Sci. 100 or Da. Sci. 100					must be com-
-----					pleted in
				AGRICULTURE ELECTIVES--Total	residence.
				Agr. Prescribed and electives	
				must equal at least 40 hours.	
Agron. 101		4			Transfer:
*Agron. 110		3			
*Agron. 204		3			Residence;
Agron. 303 (309 ¹ /)		3			
Agron. 304 (310 ¹ /)		3			Earned:
Agron. 321		4			
*Required in Crops Option Only					To be
1/See footnote page 31 of Handbook					earned:
NON-AGRICULTURE PRESCRIBED:				HUMANITIES--Six Hour Sequence	Sequence Courses
Botany 100		4			
Chem. 101, 102, or 111		3-5			
Chem. 132 or 133		3-5			
Geology 105		4			
Math. Placement Test or				SOCIAL SCI.--Six hour sequence and	
Math. 111, 112, or 104		3-5		minimum of 9 hours including:	
				Econ. 108	3
				Hist. 152 or	4
				Pol. Sci. 150	3
Rhetoric 101		3			Sequence Courses
Rhetoric 102		3			
				OPEN ELECTIVES:	
Speech 101		3			
					TOTAL HOURS
Zoology 104		4			
P.E.-P.E.		(1-1)			
P.E.-P.E.		(1-1)			

126 hours, excluding P.E. are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN ANIMAL SCIENCE

For students interested in preparing for work in the fields of animal feeding and nutrition, animal breeding and genetics, animal production, or related fields of the livestock and poultry industry.

For common core requirements see page 19. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 101--Introductory Soils (I,II)		4
Animal Science 100--Introduction to Animal Science (I,II)		3
Animal Science 120--Principles of Animal Nutrition (I,II)		3
Animal Science 110--Plant and Animal Genetics (I,II)		3
Animal Science 204--Principles of Meat Technology (II)		4
Animal Science 220--Feeds and Feeding (I,II)		3
Animal Science 305--Genetics and Animal Improvement (II)		3
Animal Science 332--Livestock Marketing (II)		3
Two of the following:		
Animal Science 206--Light Horses (II)		3
Animal Science 301--Beef Production (I,II)		3
Animal Science 302--Sheep Production (II)		3 or 4
Animal Science 303--Pork Production (I,II)		3
Animal Science 304--Poultry Management (I)		3 or 4

Elective courses in Agriculture to bring total Agriculture to a minimum of forty hours

Humanities and Social Sciences: An approved six-hour sequence in the humanities and an approved six-hour sequence in the social sciences. (See pages 13-14.) 12

Prescribed Non-Agriculture Courses
Vet. Phys. and Pharm. 202--Physiology and Domestic Animals (I) 3

Open Electives to Bring Total Hours to: 126

Recommended Agriculture Electives
Animal Science courses other than those listed or taken to satisfy the requirements, except Animal Science 201.
Agricultural Economics 220, 303
Agriculture 114, 216
Agronomy 240, 322
Dairy Science 330, 381
Entomology 101

Recommended Non-Agriculture Electives
Chemistry 105, 122, 350, and 355
Mathematics 114, 122 or 123, and 132 or 133
Microbiology 100 and 101, or 200
Physics 101 and 102
V. P. H. 205
Zoology 132 and 333

Core Curriculum with Major in ANIMAL SCIENCE
(for degree of B. S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED:		HOURS	GRADE	TWO COURSES FROM: An. Sci. 206, 301, 302, 303, 304	
Agr. 100		0			
An. Sci. 100		3			At least 20 hours of Agr. must be completed in residence.
Two courses from:				AGRICULTURE ELECTIVES--Total Agr. prescribed and elective must equal at least 40 hours	Transfer:
Agr. Econ. 100					Residence:
Agr. Eng. 100 or F.S. 201					Earned:
Agron. 121, or For. 100					To be earned:
or Hort. 100					
-----		-----	-----		
Agron. 101		4			
An. Sci. 110		3			
An. Sci. 120		3			
An. Sci. 204		4			
An. Sci. 220		3			
An. Sci. 305		3		HUMANITIES-Six Hour Sequence	Sequence Courses
An. Sci. 332		3			
NON-AGRICULTURE PRESCRIBED:					
Botany 100		4			
Chem. 101, 102, or 111		3-5			
Chem. 132 or 133		3-5			
Geology 105		4			
Math. Placement Test or Math. 111, 112, or 104		3-5		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including: Econ. 108	Sequence Courses
Rhetoric 101		3			
Rhetoric 102		3			Second Dept.
Speech 101		3		OPEN ELECTIVES	
Vet. Phys. & Pharm. 202		3			TOTAL HOURS
Zoology 104		4			
P.E.-P.E.		(1-1)			
P.E.-P.E.		(1-1)			

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN DAIRY SCIENCE

The purpose of the major in dairy science is to provide training for students planning careers as dairy farm operators and managers; as fieldmen for milk plants, breed associations, feed companies, and government agencies; as control technicians or salesmen for feed manufacturers; as laboratory and field technicians in artificial insemination; and as breeding consultants.

In addition, this major provides a foundation for advanced study in preparation for careers as college teachers, research scientists in experiment stations and industry, and extension specialists.

For common core requirements of this major, see page 19. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Six hours from Agron. 101, Da. Sci. 110, Da. Sci. 120, or elective core courses in Agriculture not used to satisfy the 9 hour agriculture core courses required.		6
Fifteen hours from the following:		
Agr. Econ. 220--Farm Management (I,II)		3
Dairy Science 202--Dairy Cattle Feeding (II)		3
Dairy Science 205--Dairy Cattle Management (I)		3
Dairy Science 220--Feeds and Feeding (I,II)		3
Dairy Science 230--Comparative Physl. of Reproduction, Lactation, and Growth (II)		3
Dairy Science 305--Genetics and Animal Improvement (II)		3
Dairy Science 330--Reproduction and Artificial Insemination of Farm Animals (I)		3
Dairy Science 334--Marketing Dairy Products (II)		
<u>Elective Courses in Agriculture</u> for advanced undergraduates at the 200-300 level		10
<u>Humanities and Social Sciences:</u> An approved six-hour sequence in the humanities and an approved six-hour sequence in the social sciences. (See pages 13-14.)		12
<u>Prescribed Non-Agriculture Courses</u>		
Minimum of nine hours from:		
Accountancy 201--Fundamentals of Accounting (I,II)		
Chemistry		
English 304--Professional Expression (I,II)		
Entomology		
Mathematics (other than Math. 111, 112 or 104)		
Microbiology		
Physics		
Physiology 103, or any 200-300 level physiology course		
Rhetoric 272--Report Writing (I, II)		
Veterinary Pathology and Hygiene 205--Animal Hygiene (I)		
Veterinary Physiology and Pharmacology 202--Physl. of Domestic Animals (I)		
Zoology 132, or any 200-300 level zoology course		
<u>Open Electives to Bring Total Hours to:</u>		126

Depending upon their interests and abilities, and in consultation with their advisers, students majoring in Dairy Science are urged to select their electives from courses which will supplement the required basic sciences, communication skills, business practices and administration, social sciences, and humanities.

Core Curriculum in Agriculture, cont.

MAJOR IN HORTICULTURE

For students who are interested primarily in general agriculture but desire a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized phases of horticulture. By a careful choice of horticulture courses and electives, a student may prepare for the production of fruits, vegetables, or other specialized horticultural crops.

Students who are interested in the production of flowers and other ornamentals, including nursery and turf crops, should enroll in the floriculture and ornamental horticulture curriculum; those expecting to do graduate study should enroll in the agricultural science curriculum with horticulture as the field of special interest.

For common core requirements see page 19. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Horticulture 100--Introductory Horticulture (II)		3
Horticulture 110--Plant and Animal Genetics (I,II)		3
Horticulture 221--Plant Propagation (I)		3
Agronomy 101--Introductory Soils (I,II)		4
Entomology 101--Agricultural Entomology (I,II)		3
Plant Path. 204--Intro. Plant Path. or Plant Path. 301--Plant Pathology (Bot. 301) (I)		3-4
Additional Horticulture courses		11
Elective courses in Agriculture to bring total Agriculture to a minimum of forty hours		

Humanities and Social Sciences: An approved six-hour sequence in the humanities and an approved six-hour sequence in the social sciences.
(See pages 13-14.)

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Prescribed Non-Agriculture Courses

Botany 230--Introductory Plant Physiology (I)	3
Botany 231--Introductory Plant Physiology Laboratory (I)	2

Open Electives to Bring Total Hours to:

126

Recommended Agriculture Electives

Agricultural Economics 230, 303, 335
 Agricultural Engineering 221, 252
 Agriculture 114
 Agronomy 240, 303, 304, 321, 326
 Food Science 201, 202
 Plant Pathology 303, 305, 306
 Horticulture courses other than those listed or taken to satisfy the requirements

Recommended Non-Agriculture Courses

Accountancy 201
 Advertising 281
 Botany 160, 304, 340, 345
 Landscape Architecture 151, 152
 Entomology 319
 Geography 111, 211
 Marketing 201
 Physics 101, 102
 Rhetoric 251

Core Curriculum with Major in HORTICULTURE
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED:		GRADE	HORTICULTURE ELECTIVES--11 hours minimum	
Agr. 100	0			Earned:
Hort. 100	3			To be earned:
Two courses from:				
Agr. Ec. 100				
Agr. Eng. 100 <u>or</u> F.S. 201				
An. Sci. 100 <u>or</u> Da.Sci.100				

Agron. 101		4		At least 20 hours of Agr. must be completed in residence.
Entom. 101		3		Transfer:
Hort. 110		3		Residence:
Hort. 221		3		
Pl. Path. 204 <u>or</u> 301		3-4		
NON-AGRICULTURE PRESCRIBED:				Earned:
Botany 100		4		To be earned:
Botany 230		3		Sequence Courses
Botany 231		2		
			HUMANITIES-Six Hour Sequence	
Chem. 101, 102, or 111		3-5		
Chem. 132 or 133		3-5		
Geology 105		4		
Math. Placement Test or Math. 111, 112, or 104		3-5	SOCIAL SCI.-Six hour sequence and minimum of 9 hours including: Econ. 108 3	Sequence Courses
Rhetoric 101		3		Second Dept.
Rhetoric 102		3		
Speech 101		3	OPEN ELECTIVES	
Zoology 104		4		TOTAL HOURS
P.E.-P.E.		(1-1)		
P.E.-P.E.		(1-1)		

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credit must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

(5/1/64)

Core Curriculum in Agriculture, cont.

MAJOR IN GENERAL AGRICULTURE

For students who are interested in a broad basic training in agriculture rather than in specialization within a departmental field of work. Areas for which such training is suited include farming, agricultural extension, agricultural services, plant protection, pre-theological study, and others.

For common core requirements, see page 19. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 101--Introductory Soils (I,II)		4
At least three hours credit in each of the following departments, in addition to courses taken to complete the core courses in agriculture:		
Agricultural Economics		3
Agricultural Engineering		3
Agronomy (in addition to 101)		3
Animal Science		3
Dairy Science		3
Horticulture		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences:</u> An approved six-hour sequence in the humanities and an approved six-hour sequence in the social sciences. (See pages 13-14.)	12
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<u>Open Electives to Bring Total Hours to:</u>	126
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Suggested programs of courses are outlined on the following pages for students who wish to prepare for work in agricultural extension, conservation and wildlife management, or for theological study.

Suggested courses for pre-theological students
as preparation for admission to a theological seminary

In addition to the courses specifically required in the first two years of the general curriculum in agriculture, and the general agriculture major, the following are also recommended for students enrolled in the College of Agriculture who plan to enter the ministry:

- Education
- English Literature (preferably two courses)
- Foreign Language (French, German, or Greek)
- History or Government (preferably two courses)
- Philosophy
- Psychology
- Religion (Foundation Courses)
- Rural Sociology
- Sociology

These will fulfill requirements for entry into most seminaries, but a student planning to enter a particular seminary should check as to courses required for admission and pre-enroll in the seminary of his choice.

Suggested Program for Agricultural Extension

(Major in General Agriculture)

<u>Agricultural Courses, including:</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics or		
Agr. Eng. 100--Engineering Applications in Agriculture		3
Agronomy 121--Principles of Field Crop Science (I,II)		4
Animal Science 120--Principles of Animal Nutrition (I,II)		3
Dairy Science 100--Intro. to Dairy Production (I,II)		3
Agronomy 110, An. Sci. 110, Da. Sci. 110, or Hort. 110--Plant and Animal Genetics (I,II)		3
Agricultural Economics 220--Farm Management (I,II)		3
Agricultural Economics 230--Marketing of Agric. Products (I,II)		3
Agriculture 114--Agricultural Journalism (I,II)		3
Agriculture 206--Agricultural Extension (II)		3
Agronomy 101--Introductory Soils (I,II)		4
Entomology 101--Agricultural Entomology (I,II)		3
Rural Sociology 117--Introduction to Rural Sociology (I,II)		

One additional three-hour course from each of the following departments:

Agricultural Engineering, Agronomy, Animal Science, Dairy Science, and Horticulture, to be chosen from the recommended agriculture electives below:

Agr. Econ. 273, 302, 303, 305, 324, 325

Agr. Eng. 241, 252, 272, 361

Agriculture 208, 214, 216

Animal Science 220, 301, 302, 303, 304

Agronomy 240, 301, 303, 304, 326

Dairy Science 205, 330

Forestry 100

Horticulture 225, 242, 262

Plant Path. 204

Suggested Humanities: An approved six-hour sequence from one of the following:

Humanities 211 and 212

Literature

Philosophy

Suggested Social Sciences: (See page 14 for definition)

Econ. 200--Econ. Analysis for Bus. or Econ. 300--Inter. Micro-Ec. Theory
and Pol. Sci. 150--American Government: Organization and Powers

Sociology sequence

Psychology 100--Introduction to Psychology or

D. G. S. 171--Psychology for General Education

Suggested Open Electives

Rhetoric 151--Business Letter Writing or Rhet. 251--Business Writing

Speech 113--Group Discussion and Conference Leadership

Speech 221--Persuasion

SUGGESTED PROGRAM FOR PLANT PROTECTION
(Major in General Agriculture)

Students who wish to obtain a degree in Agriculture with specialization in Plant Protection should complete the requirements of the core curriculum and the following courses.

<u>Agriculture Courses, including:</u>	<u>Hours</u>
Agron. 101--Introductory Soils (I,II)	4
Agron. 110--An. Sci., Da. Sci. 110 or Hort. 110, Plant and Animal Genetics (I,II)	3
Agron. 121--Principles of Field Crops Science (I,II)	4
Ent. 101--Agricultural Entomology (I,II)	3
For. 100--Farm Forestry (I,II)	3
Hort. 100--Introductory Horticulture (I,II)	3
Plant Path. 204--Introductory Plant Pathology (I)	3
Plant Path. 305--Principles of Plant Disease Control (II)	3
Plant Path. 306--Epiphytology and Diagnosis of Plant Diseases (I)	3

One additional three-hour course in each of the following departments: Agr. Econ., Agr. Eng., Agron., An. Sci., Da. Sci., Hort. The following are recommended, unless the suggested course was used to complete core requirements:

Agr. Econ. 100--Introductory Agricultural Economics (I,II)	3
Agr. Eng. 100--Engineering Applications in Agriculture (I,II)	3
Agron. 326--Weeds and Their Control (I)	3
An. Sci. 100--Introduction to Animal Science (I,II)	3
Da. Sci. 100--Introduction to Dairy Production (I,II)	3
Hort. 234, 236, 242, or 262--Nursery Management, Turf Management, Vegetable Production, or Tree and Small Fruit Culture (II,II,II,I)	3

Other Agriculture Courses Suggested:

Agr. 114--Agricultural Journalism (I,II)	3
Agr. 214--Advanced Agricultural Journalism (II)	3
Agron. 240--An Introduction to Applied Statistics	3
Agron. 321--Ecological and Physiological Factors Affecting Crop Production (I)	4
Plant Path. 302--Research Methods in Plant Pathology (I)	3
Plant Path. 303--Plant Nematology (I)	3
Plant Path. 304--Forest Tree Diseases and Wood Deterioration (II)	3
Plant Path. 377--Diseases of Field Crops (II)	3

Non-Agriculture Courses, including:

Chem. 105 and 133*--Inorganic Chemistry and Qualitative Analysis, Elementary Organic Chemistry (I,II)	5
Ent. 319--Fundamentals of Insect Control (I)	4

Humanities and Social Sciences (see pages 13-14 for definition) 12

*Chem. 133 is recommended in place of 132.

Core Curriculum with Major in GENERAL AGRICULTURE
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	AGRICULTURE ELECTIVES: Must include 3 hours of additional credit in each of the following departments:
Agric. 100	0		
Agron. 101	4		
Three courses from:			
Agr. Econ. 100			Agr. Econ.
			Agr. Eng.
			Agron.
			An. Sci.
			Da. Sci.
			Hort.
Agr. Eng. 100 <u>or</u> F.S. 201			
Agron. 121, <u>or</u> For. 100, <u>or</u> Hort. 100			
An.Sci. or Da. Sci. 100			
OTHER AGRICULTURE ELECTIVES--Total			At least 25
			Agr. prescribed and elective must
			equal at least <u>50 hours</u>
NON-AGRICULTURE PRESCRIBED:			must be completed in residence.
Botany 100	4		Transfer:
Chem. 101, 102, or 111	3-5		Residence:
			Earned:
Chem. 132 or 133	3-5		To be earned:
Geology 105	4		HUMANITIES-Six Hour Sequence
			Sequence Courses
Math. Placement Test or Math. 111, 112 or 104	3-5		
Rhetoric 101	3		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including:
Rhetoric 102	3		Econ. 108 3
			Sequence Courses
Speech 101	3		Second Dept.
Zoology 104	4		
			OPEN ELECTIVES
P.E.-P.E.	(1-1)		TOTAL HOURS
P.E.-P.E.	(1-1)		

126 hours, excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work. (5/1/64)

Curriculum in Agriculture With Major for Teachers of Vocational Agriculture

The purpose of this curriculum is to train young men to teach agriculture in high schools having departments of vocational agriculture. In addition to the training outlined in this curriculum, the present Illinois State Plan for Teachers of Vocational Agriculture calls for a minimum of two years of practical experience on the farm after reaching the age of sixteen.

A minimum of 126 hours of credit, excluding physical education, is required for graduation. While students are advised to take courses in the order indicated, they may with the approval of their advisers take courses at another time.

Since all of the requirements of the common first two years of the Core Curriculum in Agriculture are included in this major, students may follow the core curriculum for the first two years and then change to this major without loss of time.

Continuation in this curriculum with a major in vocational agriculture requires admission to advanced standing in teacher education. Application for admission to advanced standing must be made through a vocational agriculture adviser at the time of registration for the final semester of the sophomore year. A student who transfers with more than sophomore standing must apply for admission to advanced standing at the time of his first registration.

Admission to advanced standing is determined on the basis of applicant's academic and personal qualifications for teaching. The completion of certain standardized tests is required. The record of an applicant whose academic average is below 3.5 is subject to special study.

Admission to advanced standing in teacher education is prerequisite to admission to courses in educational practice (student teaching). A student who is admitted to advanced standing in teacher education is admitted to the appropriate educational practice course unless there is subsequent deterioration in his record.

Applications for student teaching assignments are received twice each year. Students who are on the campus during the spring semester prior to the year they expect to enroll in student teaching must apply for an assignment during February of that semester; students who are not on the campus during the spring semester are allowed to apply for assignment during the first three weeks of the fall semester. Application forms may be obtained in the Office of Student Teaching, 121B Education Building.

Vocational Tech. Educ. 275, Summer Experience in Agricultural Education, is highly recommended for students in this major and should be taken between the junior and senior years.

Curriculum in Agriculture With Major for Teachers of Vocational
Agriculture (for the degree, Bachelor of Science in Agriculture)

<u>First Year</u>			
<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Agr. Course from Group I	3-4
Agr. Course from Group I	3	Chem. 101, 102, or 111--Gen. Chem.	3-5
or Math. 111--Alg., or Math.		Rhet. 102--Rhet. and Comp.	3
112--College Alg., or Math.		Zool. 104--Elementary Zool.	4
104--Elements of Alg. and		Physical Education	(1)
Trig. ^{1/}	3-5		
Bot. 100--General Botany	4		
Rhet. 101--Rhet. and Comp.	3		
Physical Education	(1)		
Total	<u>14-16</u>	Total	<u>14-17</u>
<u>Second Year</u>			
Agr. Eng. 111--Farm Structures and		Agr. Eng. 112--Tractors and Field	
Soil and Water Conservation	3	Machinery	3
Agriculture Courses from Group I	6-7	Agriculture Courses from Group I	6-7
Vo. Tech. Ed. 101--The Nature of the		Chem. 132--Elem. Org. Chem.	3
Teaching Profession	2	Econ. 108--Elements of Economics	3
Geol. 105--Agricultural Geology	4	Physical Education	(1)
Physical Education	(1)		
Total	<u>16-17</u>	Total	<u>16-17</u>
<u>Third Year</u>			
Agriculture Courses from Group I	6	Agr. Econ. 220--Farm Management.	3
Psych. 100--Intro. to Psych.	4	H.P. Ed. 201--Found. of American Ed.	2
Speech 101--Prin. of Effective		Vo. Tech. Ed. 240--Prin. of Vo. Tech. Ed.	2
Speaking	3	Hist. 261--The First Century of the	
Humanities ^{3/}	3	American Republic ^{4/}	3
		Agricultural Electives ^{2/}	6
Total	<u>16</u>	Total	<u>16</u>
<u>Fourth Year</u>			

Semesters interchangeable. Courses taken with practice teaching are offered during a ten-week period.

Vo. Tech. Ed. 276--Student Teach. in		Agr. Econ. 230--Mktg. of Agric. Prod.,	
Voc. Agr.	5	or a 300-level course in Agr. Ec.	3
Vo. Tech. Ed. 277--Programs and Pro-		Pol. Sci. 150--American Govt.	3
cedures in Agr. Education	5	Agricultural Elective ^{2/}	3
Agr. Eng. 201--Farm Shop; Elec-		Humanities ^{3/}	3
trical and Metal Work	3	Electives ^{2/}	3-6
Ed. Psych. 211--Educ. Psych.	3		
Total	<u>16</u>	Total	<u>15-18</u>

Total hours credit required for the B.S. degree 126

^{1/} Students who pass the math. placement test are not required to take a math. course.

^{2/} Students who wish to complete an approved minor see p. 46 for requirements.

^{3/} An approved six-hour sequence in humanities is required. See page 13.

^{4/} This requirement may also be satisfied by History 151, 152, or 262.

Group 1--Courses in agriculture required of all students in this curriculum.

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agricultural Economics ^{1/}	3
Agronomy 101--Introductory Soils	4
Agronomy 121--Princ. of Field Crop Science	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. or Da. Sci. 120--Principles of Animal Nutrition	3
Da. Sci. 100--Introduction to Dairy Production	3
Plus six hours from:	6
Entomology 101--Agricultural Entomology	
Forestry 100--Farm Forestry	
Horticulture 100--Introductory Horticulture	
Horticulture Elective	
Plant Pathology 204--Introductory Plant Pathology	
Total	<u>26</u>

Fifth Year

(for the degree, Master of Science in Agricultural Education)

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Agricultural Courses With Graduate Credit	2	Agricultural Courses With Graduate Credit	2
Ed. Psych. 311--Psych. of Learning for Teachers	1/2	Two of the following courses:	
Ed. Psych. 312--Mental Hygiene and the School	1/2	H.P.Ed. 301--Philos. of Educ.	1/2
Electives	1	H.P.Ed. 302--Hist. of Am. Educ.	1/2
		H.P.Ed. 303--Comparative Educ.	1/2
		H.P.Ed. 304--Social Foundations of Education	1/2
		Electives	<u>1</u>
Total	<u>4</u>	Total	<u>4</u>

This fifth-year program is open only to students who have previously met the minimum requirement for teaching vocational agriculture under the Smith-Hughes and related acts. It is planned as a fifth year for students who have completed four years of college work fully equivalent to the Curriculum in Agriculture With Major for Teachers of Vocational Agriculture.

Teachers planning to complete the requirements for this degree while employed should note the following regulations:

1. Four of the eight required units must be in agriculture and two must be in education, and must be selected with the approval of the adviser.
2. Not more than four units may be earned extramurally; of the credits earned extramurally, no more than two can be in agriculture and no more than two can be in education.

^{1/} Students entering as juniors or seniors should substitute Agr. Economics 230 for Agr. Economics 100. If Agr. Econ. 230 is substituted for Agr. Econ. 100, students must also complete a 3-hour elective in Agr. Economics at the 300 level.

Students who wish to qualify for a limited high school certificate as well as a special certificate must complete an approved minor.

TEACHER EDUCATION MINOR IN BIOLOGY
For Teachers of Vocational Agriculture

	<u>Hours</u>
Botany 100--General Botany	4
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110--Plant and Animal Genetics	3
Mcbio. 100 and 101--Introductory Microbiology	5
Entom. 103--Life of Insects, or Entom. 101--Agricultural Entomology	3-4
Zool. 104--Elementary Zoology	4
Electives from the following: ^{1/}	
Agron. 321--Ecological and Physiological Factors Affecting Crop Production	4
Botany 381--Plant Ecology	5
Physiol. 103--Introduction to Human Physiology	4
Vet. Phys. & Pharm. 202--Physiology of Domestic Animals	3
Zool. 304--Field and Systematic Zoology	5
Zool. 342--Wildlife Management and Conservation	3
Zool. 345--Animal Ecology	4-5
Minimum total for minor	<u>24</u>

TEACHER EDUCATION MINOR IN GENERAL SCIENCE
For Teachers of Vocational Agriculture

	<u>Hours</u>
Botany 100--General Botany	4
Chemistry 101, 102, or 111--General Chemistry	3-5
Chemistry 132--Elementary Organic Chemistry	3
D.G.S. 141--Physical Sciences or courses in astronomy and physics	4
Geology 101--Physical Geology or Geol. 105--Agricultural Geology	4
Math. 104--Elements of Algebra and Trigonometry, or Math. 111--Algebra, or Math. 112--College Algebra	3-5
Zool. 104--Elementary Zoology	4
Total	<u>24-29</u>

^{1/} The electives, to be selected in consultation with the student's adviser, should be chosen with a view to providing breadth as well as depth of preparation in the biological sciences. Botany 381 or Zool. 345 are strongly recommended as electives.

47.

Core Curriculum in Agriculture with Major for TEACHERS OF VOCATIONAL AGRICULTURE
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible.		6 HOURS FROM: Ent. 101, For. 100, Hort. 100, Hort. Elective, Plant Path. 204		Earned:
	HOURS	GRADE		To be earned:
Agr. 100	0			
Agr. Econ. 100	3		AGRICULTURE ELECTIVES--The total of Agr. prescribed and Agr. elective courses must equal at least 50 hours	At least
Agr. Econ. 220	3			25 hours
Agr. Econ. 230 <u>or</u> a 300 level Agr.Ec. course	3			of Agr.
				must be completed in residence.
Agr. Eng. 111	3			Transfer:
Agr. Eng. 112	3			
Agr. Eng. 201	3			Residence:
Agron. 101	4			
Agron. 121	4			Earned:
An. Sci. 100	3			To be earned:
An. Sci. 120 <u>or</u> Da. Sci. 120	3		HUMANITIES-Six Hour Sequence	
Da. Sci. 100	3			Sequence Courses
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including: Econ. 108 3 Hist. 151, 152, 261 <u>or</u> 262 3-4 Pol. Sci. 150 3	Sequence Courses
Chem. 101, 102 or 111	3-5			
Chem. 132 or 133	3-5			
Geology 105	4			
Math. Placement Test or Math. 111, 112, or 104	3-5		EDUCATION COURSES PRESCRIBED: Vo. Tech. Ed. 101 2 H. P. Ed. 201 2 Ed. Psych. 211 3 Vo. Tech. Ed. 240 2 Vo. Tech. Ed. 276 5 Vo. Tech. Ed. 277 5	Earned:
Psych. 100	4			To be earned:
Rhetoric 101	3			
Rhetoric 102	3			
			OPEN ELECTIVES	
Speech 101	3			TOTAL HOURS
Zoology 104	4			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

126 hours, excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. An all-University average of 3.5 is required for practice teaching. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

(5/1/64)

CURRICULUM IN AGRICULTURAL COMMUNICATIONS

For the Degree of Bachelor of Science in Agriculture

This curriculum is designed for students who wish to pursue careers in the combined fields of agriculture and communications. It seeks to prepare them for work in such careers as agricultural advertising, public relations, farm radio and television broadcasting, photography, and agricultural publications writing or editing. The College of Agriculture and College of Journalism and Communications offer this curriculum as a joint project. It allows the planning of study programs closely suited to the student's interests in one of three communications options: advertising, news-editorial, or radio-television.

Upon completion of the curriculum requirements and a minimum of 126 hours of credit, exclusive of physical education, the student is awarded the degree of Bachelor of Science in Agriculture.

SAMPLE PROGRAM

<u>First Year</u>	<u>First Semester</u>	<u>14-16 Hours</u>	<u>Second Semester</u>	<u>14-17 Hours</u>
Agr. 100--Lecture for Freshmen ^{1/}	0		Agr. Core Course	3-4
Agr. Core Course	3		Zool. 104--Elem. Zool., or	
Math. 111, or 112, or 104--Alg.			Bot. 100--Gen. Bot.	4
or Alg. and Trig. ^{2/}	3-5		Chem. 101, 102, or 111	3-5
Bot. 100--Gen. Bot., or Zool. 104--			Rhet. 102--Rhet. and Comp. ^{3/}	3
Element. Zool.	4		Physical Education	(1)
Rhet. 101--Rhet. and Comp. ^{3/}	3			
Physical Education	(1)			
<u>Second Year</u>		<u>16-18 Hours</u>		<u>16 Hours</u>
Agr. Core Course	3-4		Agriculture Elective ^{6/}	3
Physical Science Course ^{4/}	3-4		Agr. 114--Agr. Journ., or	
Social Sciences Sequence Course ^{5/}	3		Agriculture Elective	3
Agriculture Elective ^{6/} or Agr. 114--			Econ. 108--Elements of Econ.	3
Agr. Journ.	3		Social Sciences Sequence Course ^{5/}	3
Speech 101--Principles of Effective			Humanities Sequence Course ^{7/}	3
Speaking ^{3/}	3		Physical Education	(1)
Physical Education	(1)			
<u>Third Year</u>		<u>18-19 Hours</u>		<u>16-19 Hours</u>
Agriculture Electives ^{6/}	6		Agr. 214--Adv. Agr. Journ.	3
Social Sciences Elective	3-4		Agriculture Elective	3
Humanities Sequence Course ^{7/}	3		Social Sciences Elective	3-4
Communications Course ^{8/}	3		Humanities Elective	3
Open Elective	3		Communications Course(s)	4-6

<u>Fourth Year</u>	<u>18 Hours</u>		<u>18 Hours</u>
Agriculture Elective	3	Agriculture Elective	3
Social Sciences Elective	3	Social Sciences Elective	3
Communications Courses	6	Communications Courses	6
Open Electives	6	Open Electives	6

NOTES

- 1/ A non-credit orientation course required of all freshmen in agriculture.
- 2/ A student in this curriculum is required to complete either Math. 111, Algebra, 5 hours; or Math. 112, College Algebra, 3 hours; or Math. 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics.
- 3/ D.G.S. 111 and 112, Verbal Communications, both 4-hour courses, may be substituted for Rhetoric 101, and 102 and Speech 101.
- 4/ A minimum of 3 hours required from chemistry, mathematics, geology, or physics.
- 5/ A minimum of 20 hours required, including Econ. 108 and an approved 6-hour sequence (See p. 14).
- 6/ A minimum of 35 hours of agriculture courses required, including 15 hours at the 200-300 level.
- 7/ A minimum of 9 hours required, including an approved 6-hour sequence (see p. 13).
- 8/ A minimum of 20 hours of Journalism and Communications College courses required, including those prescribed for the student's selected option (listed below).

AGRICULTURE CORE COURSES

In addition to Agriculture 100, one course from three of the four areas listed below must be completed by each student in this curriculum.

	<u>Hours</u>
Agricultural Economics:	
Agr. Econ. 100 - Introductory Agricultural Economics	3
Agricultural Engineering and Technology:	
Agr. Eng. 100 - Engineering Applications in Agriculture, or	
Food Sci. 201 - Principles of Food and Dairy Product Processing	3
Animal Sciences:	
An. Sci. 100 - Introduction to Animal Science, or	
Da. Sci. 100 - Introduction to Dairy Production	3
Plant Sciences:	
Agron. 121 - Principles of Field Crop Science, or	
For. 100 - Farm Forestry, or	
Hort. 100 - Introductory Horticulture	3-4

PRESCRIBED COURSES IN COMMUNICATIONS

A student will complete one of the following options:

Advertising Option

Adv. 281 - Introduction to Advertising

Adv. 382 - Advertising Copy and Layout

Adv. 383 - Advertising Media

Adv. 384 - Advertising Campaigns

Electives in Journalism and Communications to complete 20-hour requirement.

News-Editorial Option

Journ. 204 - Typography

Journ. 211 - Newswriting

Journ. 321 - News Editing

One course from the following:

Journ. 217 - History of Communications

Journ. 218 - Communications and Public Opinion

Journ. 220 - Processes and Systems of Communications

Journ. 231 - Mass Communications in a Democratic Society

Journ. 372 - Social Aspects of Mass Communications

One course from the following:

Journ. 212 - Public Affairs Reporting

Journ. 323 - Advanced Reporting

Journ. 326 - Magazine Article Writing

Journ. 330 - Magazine Editing

Journ. 344 - Community Newspaper Publication

Radio-TV 355 - Television News

Electives in Journalism and Communications to complete 20-hour requirement.

Radio-Television Option

Journ. 211 - Newswriting

Radio-TV 252 - Television Laboratory

Radio-TV 261 - Principles of Radio and Television Broadcasting

Electives in Journalism and Communications to complete 20-hour requirement, including at least 6 hours of radio-TV courses in addition to 252 and 261.

COLLEGE OF AGRICULTURE

Office of the Associate Dean

NAME _____

DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	AGRICULTURE ELECTIVES: Must include 12 hrs. 200-300 level. Total Agr. prescribed and elective must equal at least 35 hours.
Agr. 100	0		
Agr. 114	3		
Agr. 214	3		
- - - - -	- - - - -	- - - - -	- - - - -
Three courses from: Agr. Econ. 100			At least 20 Agr.hrs. in resi- dence. Trans.: Res.:
Agr. Eng. 100 <u>or</u> Food Sci. 201			12 hours - 200-300 level courses
An. Sci. 100 or Da. Sci. 100			Earned: To be Earned:
Agron. 121, <u>or</u> For. 100, <u>or</u> Hort. 100			JOURNALISM AND COMMUNICATIONS COURSES Minimum of 20 hours. ADVERTISING OPTION: Adv. 281, 382, 383, 384, and electives NEWS-EDITORIAL OPTION: Journ.204,211,321; 217 or 218 or 220 or 231 or 372; and 212 or 323 or 326 or 330 or 344 or RTV 355; and elec. RADIO-TV OPTION: Journ 211, R-TV 252, 261 and electives (including 6 hrs. of R-TV courses in addition to 252 and 261). Earned: To be Earned:
NON-AGRICULTURE PRESCRIBED:			
Botany 100	4		
Chem. 101, 102, or 111	3-5		
Math. Placement Test, or Math. 111, 112, or 104	3-5		
Minimum of 3 additional hours in chemistry, geology, mathe- matics or physics	3		
Rhetoric 101	3		HUMANITIES-Six hour sequence, with minimum of 9 hours Seq. Courses Hours
Rhetoric 102	3		SOCIAL SCIENCES-Six hour sequence, with minimum of 20 hours including: Econ. 108 Seq. Courses Hours
Speech 101	3		
Zoology 104	4		
P.E.-P.E.	(1-1)		OPEN ELECTIVES
P.E.-P.E.	(1-1)		TOTAL HOURS

126 hours, excluding P.E., are required for the degree as outlined above. Minimum of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work. 12/1/65

AGRICULTURAL INDUSTRIES CURRICULUM

(for the degree, Bachelor of Science in Agriculture)

This curriculum provides a broad selection of courses in agricultural sciences, natural sciences, economics and other social sciences, business administration, finance, communication, and the humanities. It is designed to prepare students for careers in those industries and businesses which service or are related to agriculture. A minimum of 26 hours of commerce and business administration courses is required.

During the first two years, this curriculum closely parallels the requirements of the Core Curriculum in Agriculture. Students desiring to transfer to the Agricultural Industries curriculum anytime during the first two years may do so with little difficulty.

Examples of specific opportunities for employment are:

1. Farm Supplies - Marketing of feed, seed, fertilizer, machinery, equipment, and other supplies to farmers;
2. Agricultural Commodities - Marketing of agricultural commodities in local, intermediate, and central markets;
3. Food and Food Products - Distribution of food and food products in wholesale and retail markets, including institutional users; and
4. Agricultural Real Estate and Finance - Services related to the appraisal, financing, ownership, and transfer of agricultural property.

An adviser will assist each student in planning a specific program.

Upon completion of the curriculum requirements and a minimum of 126 hours of credit, exclusive of physical education, the student is awarded the degree of Bachelor of Science in Agriculture.

For the degree of Bachelor of Science in Agriculture
Sample Program for First Two Years

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lecture for Freshmen ^{1/}	0	Agriculture Core Course	3-4
Agriculture Core Course	3	Chem. 101, 102, or 111--Gen. Chemistry	3-5
Math. 111, or 112, or 104--Alg. or Alg. and Trig. ^{2/}	3-5	Rhet. 102--Rhet. and Comp. ^{3/}	3
Bot. 100--Gen. Bot., or Zool. 104--Elem. Zool.	4	Zool. 104--Elem. Zool. or Bot. 100--Gen. Botany	4
Rhet. 101--Rhet. and Comp. ^{3/}	3	Physical Education	(1)
Physical Education	(1)		
Total	14-16	Total	14-17

Second Year

Agriculture Core Course	3-4	Agric. Electives from Group II	6
Chem. 132--Organic Chemistry	3	Commerce and business course from Group I ^{2/}	3
Geol. 105--Agricultural Geology	4	Social Science or Humanities ^{4/}	3
Speech 101--Principles of Effective Speaking ^{3/}	3	Journ., Speech or Rhet. (exclusive of Rhet. 101, 102, 200, and Speech 101) ^{6/}	3
Social Science or Humanities ^{4/}	0-3	Physical Education	(1)
Physical Education	(1)		
Total	15-17	Total	16

Agriculture Core Courses. In addition to Agriculture 100, one course from three different areas of the four areas listed below must be completed by each student in this curriculum and its related majors.

	<u>Hours</u>
<u>Agricultural Economics:</u>	
Agr. Econ. 100--Introductory Agricultural Economics	3
<u>Agricultural Engineering and Technology:</u>	
Agr. Eng. 100--Engineering Applications in Agriculture <u>or</u> Food Science 201--Principles of Food and Dairy Product Processing	3
<u>Animal Sciences:</u>	
Animal Science 100--Introduction to Animal Science, <u>or</u> Dairy Science 100--Introduction to Dairy Production	3
<u>Plant Sciences:</u>	
Agronomy 121--Principles of Field Crop Science, <u>or</u> Forestry 100--Farm Forestry, <u>or</u> Horticulture 100--Introductory Horticulture	4-3

Each student is urged to complete one core course per semester for each of the first three semesters. This will permit the student to select agriculture electives in the fourth and succeeding semesters from those agriculture courses which are suggested for his area of interest.

Third and Fourth Years

The general requirements, in addition to the courses listed for the first two years, include completion of:

1. A minimum of twenty-six hours of commerce and business courses.
2. Twenty-six hours of agriculture electives in addition to the nine hours of agriculture core courses.
3. An approved six-hour sequence in the humanities (See page 13).
4. A minimum of nine hours of approved social science courses (other than economics). (See page 14.)
5. Sufficient open electives to bring the total hours to 126.

Group I - Commerce and business courses prescribed - 26 hours

Accountancy 201 <u>or</u> 101 and 105 ^{7/}	3 or 6
Economics 102 <u>and</u> 103 <u>or</u>	
Economics 108 <u>and</u> 200 <u>or</u> 300	6
Finance 150 <u>or</u> 254, <u>or</u> 257	3
Statistics ^{8/}	3 or 6
Electives (approved by adviser) chosen from accountancy, Advertising 281, industrial administration, economics, finance, and marketing to bring total commerce and business courses to 26 hours.	

Group II - Suggested Agriculture electives - 26 hours

The following listing of agriculture courses is intended as a guide from which electives may be chosen. Other courses may be selected upon approval of the adviser. A total of 26 hours is required.

For those interested in <u>farm supplies</u>	For those interested in agricultural <u>commodities</u>	For those interested in food and <u>food products</u>	For those interested in agricultural real <u>estate and finance</u>
Agr. Econ. 220	Agr. Econ. 230	Agr. Econ. 230	Agr. Econ. 220
238	238	335	302
342	331	342	303
Agr. Eng. 221	332	An. Sci. 104	312
242	334	Dairy Tech. 102	342
272	335	Food Sci. 201	Agr. Eng. 252
281	342	260	272
Agron. 303	Agron. 321	332	Agron. 301
304	An. Sci. 103	Home Ec. 120	
322	104	Hort. 242	
323	120	262	
326	220		
An. Sci. 120	301		
220	302		
301	303		
302	304		
303	Dairy Sci. 202		
304	Food Sci. 201		
Dairy Sci. 202			
305			
Entom. 101			
Pl. Path. 204			

Open electives to bring total hours to: 126

- 1/ A non-credit orientation course required of all freshmen in agriculture.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics, 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. See pages 15 and 19 for additional details.
- 3/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 4/ See pages 13 - 14 for approved humanities and social science courses.
- 5/ Economics 102 or 108 is recommended from this group for the sophomore year.
- 6/ One course in journalism, speech, or rhetoric (exclusive of Rhetoric 200) is required, in addition to Rhetoric 101 and 102 and Speech 101.
- 7/ Credit may not be earned for both Accountancy 101 and 201.
- 8/ Economics 171, or 172, and 173, or Agronomy 240, or Agricultural Economics 341, or Mathematics 161. If either Agronomy 240 or Agricultural Economics 341 is used to satisfy this requirement, credit may not also be counted toward Agriculture hours.

AGRICULTURAL INDUSTRIES CURRICULUM
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

AGRICULTURE PRESCRIBED:	HOURS	GRADE	OTHER AGRICULTURE ELECTIVES--Total	At least 18
Agric. 100	0		Agr. prescribed and elective must equal at least 35 hours	hours of
Three courses from:				Agr. must
Agr. Econ. 100				be completed
Agr. Eng. 100 <u>or</u>				in residence.
Food Sci. 201				Transfer:
Agron. 121, <u>or</u> For. 100,				Residence:
<u>or</u> Hort. 100				Earned:
An. Sci. 100 <u>or</u>				To be
Da. Sci. 100				Earned:
COMMERCE AND BUSINESS--Requirements: a minimum of 26 hours including:				
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4		Accy. 101 and 105, 3-3 <u>or</u> Accy. 201 3 Econ. 108 <u>and</u> 200 or 300 <u>or</u> Econ. 102 <u>and</u> 103 6	Earned:
Chem. 101, 102, or 111	3-5		Statistics* 3or6 Finance 150, 254, <u>or</u> 257 3	
Chem. 132	3		Electives chosen from: accy., Advt. 281, ind. admin., econ., finance, and mktg.	To be
Geology 101 or 105	4			earned:
Math. Placement Test or Math. 111, 112, or 104	3-5		HUMANITIES-Six Hour Sequence	Sequence Courses
Rhetoric 101	3			
Rhetoric 102	3		SOCIAL SCIENCE (other than Econ.) Minimum 9 hrs.-see approved list	Earned:
Speech, Journ. or Rhet. Elective	2-3			To be
Speech 101	3		OPEN ELECTIVES	earned:
Zoology 104	4			TOTAL HOURS
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)		*Econ. 171, or 172 <u>and</u> 173, or Agron. 240, or Agr. Ec. 341, or Math. 161.	

126 hours, excluding P.E. are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Students who transfer credit must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

Agricultural Science Curriculum
(for the degree, Bachelor of Science in Agriculture)

This curriculum is especially designed for students who plan to do graduate study in agricultural fields or for those who wish to engage in professional work requiring more science, mathematics, or engineering than is included in the Core Curriculum in Agriculture. Students entering this curriculum as freshmen must have a scholarship rank in the upper half of their graduating class, and those entering as transfers must have a scholastic average in their collegiate work of not less than 3.5 in terms of the grading system of the University of Illinois. Once enrolled, they must maintain an average of at least 3.5 to remain in and graduate from the curriculum.

Options I and II provide an opportunity for planning individual programs of study under the supervision of a faculty adviser qualified in the student's special field of interest. Option III includes many prescribed courses both in agriculture and in engineering. Careful scheduling of courses is necessary.

Option I. For students desiring preparation for graduate study or professional work in animal, plant, or soil science (see footnote 1, page 58), or wildlife management and conservation.

Option II. For students desiring preparation for graduate study or professional work in the fields included in agricultural economics, agricultural law, and rural sociology.

Option III. For students enrolled in the five-year combined agricultural science and agricultural engineering program. All requirements of the combined curriculum as outlined on the following pages must be completed to satisfy the requirements for a degree in agriculture.

	Options I and III Minimum Hours	Option II Minimum Hours
General University Requirements (Physical Education, and Rhetoric)	6	6
Group I: College of Agriculture Courses (15 of the 30 hours must be at the 200- 300 level)	30 ^{1/}	30
Group II: Humanities: From approved sequences See page 13.	6	6
Group III: Social Science: Approved sequence and electives. See page 14.	9	16 ^{3/}
Group IV: Biological Science (Botany, Entomology, Microbiology, Physiology, Zoology)	10 ^{2/}	6
Group V: Physical Science (Chemistry, Geology, Mathematics, Physics) ^{4/}	10 ^{2/}	16
Electives (unrestricted)	<u>30</u>	<u>46</u>
TOTAL required for graduation	126	126

^{1/} In Option III, a maximum of 15 hours of agricultural engineering courses may be credited toward the degree in agriculture.

^{2/} Students in Options I and III must complete a total of 45 hours in Groups IV and V combined, with a minimum of 10 hours in each.

^{3/} Students in Option II must include at least 8 hours in economics.

^{4/} In Option III, T.A.M. 150 and 211 may be counted toward Group V.

Agricultural Science Curriculum
Sample programs for first year

Option I^{1/}

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorganic Chem. and Qualitative Analysis,	
Chem. 101 or 102--General Chemistry	4 or 3	or Chemistry 106--Inorganic Chemistry	5
Math. 111 or 112--College Algebra ^{2/}	5 or 3	Math. 114--Plane Trigonometry ^{2/}	2
Rhet. 101--Rhet. & Comp.	3	Rhet. 102--Rhet. & Comp.	3
Physical Education	(1)	Physical Education	(1)
Electives	3 to 6	Electives	4 to 6
Total	16 to 17	Total	15 to 17

Option II

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Agr. Econ. 100--Introductory Agricultural Economics	3	Math. 114--Plane Trigonometry or Chem. 101--General Chem. ^{2/}	2 to 4
Math. 111 or 112--College Algebra or Math. 114-- Plane Trigonometry ^{2/}	5, 3 or 2	Rhet. 102--Rhet. & Comp.	3
Rhet. 101--Rhet. & Comp.	3	Physical Education	(1)
Physical Education	(1)	Agricultural electives	3 to 6
Electives	3 to 6		
Total	16 to 17	Total	16 to 17

Second, Third, and Fourth Years^{3/}

The programs for the second, third, and fourth years must be planned in consultation with the student's faculty adviser.^{3/}

Total required for graduation. 126

Students interested in combined programs of Agriculture and Agricultural Engineering should see pages 59-60-61. Those interested in combining Agriculture and Law should see page 62.

^{1/} Students who plan graduate work in Agronomy-Soils should take Agronomy 309 and 310. Those having the prerequisites for Agronomy 309, a minimum of 12 hours of soils, and the prescribed rhetoric requirements, are eligible for certification as Soil Scientists by the Soil Science Society of America.

^{2/} Students who pass the mathematics placement examination in algebra or in both algebra and trigonometry may omit beginning courses in mathematics and enroll in more advanced courses.

^{3/} No student may enter the Agr. Sci. Curriculum for the first time after the beginning of his senior year in college except by petition.

Agricultural Science Curriculum
Option III
5-Year Combined Program in
Agricultural Science and Agricultural Engineering
(for the degrees, Bachelor of Science in Agriculture
and Bachelor of Science in Agricultural Engineering)

Effective for Students Entering as Freshmen in September 1963 or Later

First Year
(Enroll in College of Agriculture)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lectures for Freshmen or Gen. Eng. 100--Eng. Lectures	0	Chem. 104--Chemistry of Me- talllic Elements ^{1/}	4
Chem. 101 or 102--General Chem. ^{1/}	4 or 3	G. E. 103--Engr. Graph. I	3
Math. 111 or 112--Coll. Alg. ^{2/}	5 or 3	Math. 123--Analytic Geometry	5
Math. 114--Plane Trig. ^{2/}	2	Rhet. 102--Rhetoric and Comp.	3
Rhet. 101--Rhetoric and Comp.	3	Physical Education	(1)
Physical Education	(1)		
Electives	3		
Total	15 to 18	Total	16

Second Year

Agr. Eng. 146--Farm Tractors	2	Agr. Eng. 156--Surveying and Soil and Water Engineering	3
Botany 100--General Botany	4	Agron. 121--Princ. of Field Crop Sci.	4
Math. 133--Calculus	3	Math. 143--Calculus	5
Physics 106--General Physics (Mechanics)	4	Physics 107--General Physics (Heat, Elect., Magnetism)	4
Speech 101--Effective Speaking	3	Physical Education	(1)
Physical Education	(1)		
Total	17	Total	17

Third Year

Agr. Eng. 236--Farm Machine Characteristics and Mechanisms	2	Agron. 101--Intro. Soils	4
Physics 108--General Physics (Sound, Light, Mod. Phy.)	4	Econ. 108--Elem. of Econ.	3
Geol. 105--Agr. Geol. or Geol. 150--Geol. for Engrs.	4 or 3	T.A.M. 211--Analy. Mech. (Dynamics)	3
T.A.M. 150--Analy. Mech. (Statics)	2	T.A.M. 221--Elem. Mech. of Deformable Bodies	3
Math. 195--Intro. to Automatic Digital Computing	3	T.A.M. 223--Mechanical Be- havior of Solids	1
Math. 345--Differential Equations and Orthogonal Functions	3	Elective ^{3/}	3 or 4
Total	17 to 18	Total	17 to 18

Fourth Year
(May transfer to Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Ec. 220--Farm Management	3	Agr. Eng. 276--Des. of Farm Struct.	3
E. E. 220--Basic Elect. Eng.	3	Agr. Eng. 286--Elect. in Agr.	2
M. E. 209--Thermodynamics	3	Agr. Eng. 298--Seminar	1
C. E. 261--Structural Theory or		T.A.M. 235--Fluid Mechanics	4
M.E. 221--Mech. of Machinery	3-5	Technical Electives	3
Electives ^{3/}	4-6	Electives ^{3/}	6
Total	18	Total	19

Fifth Year
(Must be enrolled in Engineering)

Technical Electives	9	Agr. Eng. 299--Undergrad. Thesis	2
Electives ^{3/}	6	Technical Elective	3
		Electives ^{3/}	11 or 12
Total	15	Total	16 or 17

Technical Electives: Each student selects a minimum of fifteen hours from the following. At least two courses must be in agricultural engineering.

Agr. Eng. 277	C. E. 251
Agr. Eng. 287	C. E. 262
Agr. Eng. 336	C. E. 263
Agr. Eng. 346	C. E. 264
Agr. Eng. 356	C. E. 383
Agr. Eng. 357	E. E. 232
Agr. Eng. 376	E. E. 233
Agr. Eng. 387	M. E. 224
Agr. Eng. 396	M. E. 234
Chem. 323	M. E. 271
C. E. 210	T. A. M. 311
C. E. 214	T. A. M. 321
C. E. 250	T. A. M. 326

Other technical courses: All courses which satisfy the College of Engineering requirements for technical electives as given on page 232 of the University of Illinois Undergraduate Study Bulletin.

Students desiring to specialize in a specific area of agricultural engineering may use the following lists as a guide in choosing their technical electives:

<u>Electric Power and Processing</u>		<u>Power and Machinery</u>	
Agr. Eng. 287	3	Agr. Eng. 336	3
Agr. Eng. 387	3	Agr. Eng. 346	3
Chem. 323	2	M. E. 224	3
E. E. 232	2	M. E. 234	3
E. E. 233	1		

Soil and Water

Agr. Eng. 356	3
Agr. Eng. 357	3
C. E. 210	3
C. E. 250	3
C. E. 262	3

Farm Structures

Agr. Eng. 376	3
Agr. Eng. from	
Tech. Elec. List	3
C. E. 214	2
C. E. 262	3
C. E. 263	3
C. E. 264	3

- 1/ Superior students in the upper 10% of their high school class who have had one year of high school chemistry may take Chem. 109, 5 hours, to complete their chemistry requirements.
- 2/ Students with three or four years of high school mathematics, including trigonometry, and a satisfactory grade on the mathematics placement tests, may take Mathematics 123 the first semester and follow the Common Program for Freshmen in the College of Engineering. This may require three additional hours of physical science to meet graduation requirements.
- 3/ Electives must include the following:
 1. 4 hours of agriculture, other than Agricultural Engineering, Agronomy 101 and 121, and Agricultural Economics 220.
 2. 6 hours of biological science in addition to Botany 100 (botany, entomology, microbiology, physiology, and zoology).
 3. A six hour sequence in humanities courses (see page 13). Since the list of courses which the College of Engineering and College of Agriculture accept for humanities varies, students should be careful to select those which are acceptable to both colleges.
 4. A minimum of nine hours of approved social sciences, including Econ. 108, and an approved six hour sequence in social science. Since the list of courses which the College of Engineering and College of Agriculture accept for social science varies, students should be careful to select those which are acceptable to both colleges.
 5. Sufficient approved electives (normally three hours) in the humanities in addition to item 3 above to satisfy the College of Engineering requirements (see page 13).
 6. Sufficient open electives to total the minimum curriculum requirements of 165 hours exclusive of physical education. All requirements of the combined curriculum as outlined must be completed to satisfy the requirements for a degree in agriculture.

NOTE: Students must maintain a 3.5 grade average to continue in and graduate from the Agricultural Science curriculum. Those whose average falls below this requirement must transfer to the 4-year program in the College of Engineering if they wish to obtain a degree in Agricultural Engineering or to the core curriculum in Agriculture if they wish to obtain a degree in Agriculture.

Agriculture and Law Program

Starting in 1965, the College of Law will require a Bachelor's degree as a prerequisite for admission. The Agriculture and Law program, therefore, will normally require seven years--four years leading to the B. S. degree in Agriculture plus three years in the College of Law leading to the LL.B degree.

The student who is interested in this program may complete the requirements for a degree in any of the approved curricula of the College. For greatest flexibility, Option II of the Agricultural Science curriculum is recommended. See page 57. Students interested in this program should ask to be assigned to an Agriculture pre-Law adviser.

Requirements for admission to the College of Law are as follows:

1. A degree from an accredited university or college.
2. A 3.5 all-University grade average (based on 5.0 = "A").
3. A satisfactory score on the Law School Admission Test.

AGRICULTURAL SCIENCE CURRICULUM
Option _____
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

PRESCRIBED:	HOURS	GRADE	GROUP III--SOCIAL SCIENCES-Six hour sequence.		
Rhetoric 101	3		Options I and II--minimum of 9 hrs;		
Rhetoric 102	3		Option III--Minimum of 16 hrs. <u>2/</u>		Earned:
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				To be earned:
GROUP I--Agriculture courses <u>1/</u>			Sequence courses:		
Minimum of 30 hours required,			Second department:		
15 hrs. of which must be 200-300			GROUP IV--BIOLOGICAL SCIENCES (bot.,entom.,mcbio.,		
level. A transfer student must earn			physiol.,zool.) Options I and III--minimum of		
at least 1/2 of his agr. hours in			10 hrs. <u>3/</u> ; Option II--minimum of 6 hours.		Earned:
residence at the Univer. of Ill.					
Agr. 100	0				To be earned:
			GROUP V--PHYSICAL SCIENCES (chem., geol., math.,		
			physics). Options I and III <u>4/</u> --minimum of 10		
15 hours 200-300 level courses			hours <u>3/</u> ; option II--minimum of 16 hours.		Earned:
					To be earned:
					Total Hours
GROUP II--HUMANITIES-Six			OPEN ELECTIVES:		
hour sequence					
					TOTAL HOURS
Sequence Courses:					

1/ In Option III, a maximum of fifteen hours of agricultural engineering courses may be credited toward the degree in Agriculture.

2/ Students in Option II must include at least 8 semester hours in economics.

3/ All students in Options I and III must complete a total of 45 semester hours in Groups IV and V combined with a minimum of 10 hours in each.

4/ In Option III, T.A.M. 150 and 211 may be counted toward Group V.

126 hours, excluding P.E., are required for the degree as outlined above. To enroll in this curriculum, freshmen must rank in the upper half of their high school graduating class; transfer students must have an average of 3.5 or higher. A minimum average of 3.5 is required for graduation.

(5/1/64)

DAIRY TECHNOLOGY CURRICULUM
(for the degree of Bachelor of Science in Dairy Technology)

The following program is designed for students interested in the business and technological aspects of dairy manufacturing or in research or teaching in the field of dairy technology. A minimum of 126 hours of credit, excluding P.E., is required for graduation. All students specializing in dairy technology are expected to take an inspection trip in either the junior or the senior year. This trip costs about \$20.

<u>First Year</u>			
<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorg. Chem. and	
Chem. 101 or 102--Gen. Chem.	4-3	Qualitative Analysis	5
D.S. 100--Introd. to Dairy Prod.	3	Rhet. 102--Rhetoric and Comp.	3
Math. 111 or 112 ^{1/} --Col. Algebra	5-3	Speech 101--Prin. of Effective	
Rhet. 101--Rhetoric and Comp.	3	Speaking	3
Physical Education	(1)	Physical Education	(1)
		Electives	4
Total	<u>13-16</u>	Total	<u>16</u>

<u>Second Year</u>			
Chem. 133--Elem. Org. Chem.	5	Mcbio. 100 & 101--Intro. Mcbio.	5
Econ. 108--Elements of Economics	3	F. Sci. 202--Proc. and Qual.	
Rhet. 151--Bus. Letter Writing	3	Eval. of Dairy & Food Prod.	3
Physical Education	(1)	D. T. 213--Tech. Control of	
Electives (Group I or II)	3-4	Dairy Products	3
		Physical Education	(1)
		Elective (Group I or II)	4
Total	<u>15-16</u>	Total	<u>16</u>

<u>Third Year</u>			
D. T. 211--Bacteriological		Accy. 201 ^{2/} --Fund. of Account.	3
Control of Dairy Plants	4	D. T. 310--Dairy Prod. Proc.	4
Food Sci. 201--Prin. of Food and		Electives (Groups I and II)	9
Dairy Product Processing	3		
Electives (Groups I and II)	9		
Total	<u>16</u>	Total	<u>16</u>

<u>Fourth Year</u>			
D. T. 311--Dairy Prod. Proc.	4	Electives	17
Elective (Group I or II)	3		
Electives	9		
Total	<u>16</u>	Total	<u>17</u>

^{1/} Students who pass the mathematics placement test are not required to take a mathematics course; all others must take either Math. 111 or Math. 112.

^{2/} Students interested in business management should take Accy. 101 and 105.

^{3/} Credit may not be earned for both Accountancy 101 and 201.

DAIRY TECHNOLOGY CURRICULUM--Continued

Group I electives: A minimum of 15 hours, at least 6 of which must be in courses above the 100 level, to be selected from science (chemistry, mathematics, microbiology, and physics) or commerce (accountancy, business law, economics^{1/}, finance, management, and marketing).

Group II - Humanities and Social Sciences: An approved six hour sequence in each. (See pages 13-14.)

Electives in the third and fourth years, chosen with the assistance of an adviser, can provide a background of general business training, a special knowledge of some business field, or a basis for graduate work in preparation for research.

^{1/} Students who select economics courses in fulfillment of Group I or II may not count the same course in both groups.

CURRICULUM IN DAIRY TECHNOLOGY
(for degree of B.S. in Dairy Technology)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

PRESCRIBED COURSES:	HOURS	GRADE	GROUP I--A minimum of 15 hours is required from:			
Agr. 100	0		<u>science</u> (chem., math., mcbio., and physics) <u>or</u>			
Accy. 201 or Accy. 101 and 105 ^{1/}	3 3-3		<u>commerce</u> (accy., econ. ^{2/} , finance ^{2/} , ind. adminis- tration, and mktg.). At least 6 of the 15 hours must be above the 100 level.			
Micro. 100	3					
Micro. 101	2					
Chem. 101 or 102	4-3					
Chem. 105	5		200-300 level courses-minimum		6 hours.	Earned:
Chem. 133	5					To be earned:
Da. Sci. 100	3					Total:
Da. Tech. 102	3					
Da. Tech. 211	4					
Da. Tech. 213	3		HUMANITIES-Six Hour Sequence			Sequence Courses
Da. Tech. 310	4					
Da. Tech. 311	4		SOCIAL SCIENCE-Six hour sequence and minimum of 9 hours including:			Sequence Courses
Food Sci. 201	3		Econ. 108	3		
Math. 111 or 112 or Math. Placement Test	5-3					Second Dept.
Rhet. 101	3					
Rhet. 102	3		OPEN ELECTIVES			
Rhet. 151	3					TOTAL HOURS
Speech 101	3					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, excluding physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

^{1/} Students interested in business management should take Accy. 101 and 105.

Credit may not be earned for both Accountancy 101 and Accountancy 201.

^{2/} Students who select economics courses in fulfillment of Group I or Social Science courses may not count the same course in both groups.

CURRICULUM IN FLORICULTURE AND ORNAMENTAL HORTICULTURE

(For the Degree of Bachelor of Science in Floriculture and Ornamental Horticulture)

The curriculum in Floriculture and Ornamental Horticulture is intended primarily for students preparing to produce and/or market flower crops, nursery products, and other ornamentals; engage in related professional activities; or do teaching and research in this field.

More specifically, students may seek training in the respective field of specialization noted below or in other closely related areas:

1. Production of flower crops and other ornamentals, both indoors and out.
2. Greenhouse management and operation.
3. Nursery and turf management and production.
4. Flower shop management and floral designing.
5. Retail and wholesale marketing of floricultural specialties.
6. Floricultural and ornamental horticultural service, including extension work, industrial consulting, journalism, municipal park employment, quarantine service employment, sales, etc.
7. Preparation for advanced studies leading to academic positions in teaching, research, and extension; executive, supervisory, or research positions with commercial firms; and various other floricultural and ornamental horticultural service activities.

A minimum of 130 hours of credit is required for graduation, exclusive of physical education (4 hours). Requirements have been kept at a minimum to allow the individual student to progress in the field of his particular interest under the close guidance of his adviser. All students in this curriculum will follow a common first-year program.

More complete information and sample programs for various areas of specialization may be obtained at 100 Floriculture Building, Urbana, Illinois.

Students in this curriculum are required to make at least one inspection trip to commercial establishments before graduation. The trip costs about \$35.00. Students are also advised and encouraged to acquire practical experience through employment in florist or nursery establishments during vacation periods.

Summary of Requirements

	Hours
Rhetoric 101, 102, and Speech 101, <u>or</u> D.G.S. 111 and 112.	8-9
Freshman Year (Excluding General University Requirements and Electives) . .	13-17
Group I Requirements (Horticulture) ^{1/}	27
Group II Requirements (Humanities and Social Sciences).	15
Group III Requirements (Biological and Physical Sciences) ^{2/}	16
Group IV Requirements (Supporting Courses).	20
Electives	<u>26-31</u>
Total Hours.	130

^{1/} 3 additional hours of horticulture included in freshman year.

^{2/} 10-14 additional hours of biological and physical sciences included in freshman year.

COMMON FIRST-YEAR PROGRAMFirst SemesterHours

Agr. 100 - Lectures for Freshmen in Agriculture	0
Botany 100 - General Botany	4
Horticulture 122 - Greenhouse Management	3
Math. 111- Algebra; or Math. 112- College Algebra <u>3/</u>	3 or 5
D. G. S. 111 - Verbal Communication*	4
P. E.	(1)
Elective	<u>0 - 3</u>
	15 - 18

Second Semester

Chem. 101, 102, or 111 - General Chemistry	4, 3 or 5
D. G. S. 112 - Verbal Communication*	4
P. E.	(1)
Electives	<u>6 - 8</u>
	15 - 18

*Note--Students who do not take D.G.S. 111 and 112 must complete Rhetoric 101, 102, and Speech 101.

Group I Requirements - Horticulture: A minimum of 27 hours will be selected from this list

Hort. 221--Plant Propagation	3
Hort. 223--Floricultural Crops Production ^{4/}	3
Hort. 224--Floricultural Crops Production <u>4/</u>	3
Hort. 225--Ornamental Gardening	3
Hort. 226--Bedding and Foliage Plants ^{4/}	3
Hort. 230--Garden Flowers ^{4/}	3
Hort. 231--Floral Decorations ^{4/}	3
Hort. 232--Advanced Floral Decorations and Flower Shop Management ^{4/}	3
Hort. 234--Nursery Management ^{4/}	3
Hort. 236--Turf Management ^{4/}	3
Hort. 242--Vegetable Crops Production	3
Hort. 251--Arboriculture	3
Hort. 262--Tree and Small Fruit Culture	3
Hort. 321--Floricultural Physiology	4
Hort. 322--Plant Nutrition	4

3/ Students in this curriculum are required to complete either Math. 111, Algebra, 5 hours; Math. 112, College Algebra, 3 hours; or pass the placement examination in mathematics. Students who enter this curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics.

4/ Offered in alternate years only.

Group II Requirements - Humanities--an approved sequence (see page 13). 6

Students contemplating continuation of their studies for an advanced degree are encouraged to elect one of the foreign languages, preferably French or German.

Social Science--an approved sequence and a minimum of 9
nine hours including Economics 108. (See page 14.)

Group III Requirements - Biological and Physical Sciences: A minimum of 16 hours
will be selected from this group, including at least one course in chemistry:

A. Biological Sciences: A minimum of 6 hours, representing at least two different departments.

	<u>Hours</u>
Bot. 160 - Introductory Plant Taxonomy	3
Bot. 230 - Introductory Plant Physiology	3
Bot. 231 - Introductory Plant Physiology Laboratory	2
Entom. 101 - Agricultural Entomology	3
Hort. 110 - Plant and Animal Genetics	3
Mcbio. 100 & 101 - Intro. Mcbio.	5
Plant. Path. 204 - Intro. Plant Pathology <u>or</u> Plant Path. 301, Plant Path. 3-4	3-4

B. Physical Sciences: A minimum of 6 hours, representing at least two different departments, including at least one course in chemistry.

Chem. 105 - Inorganic Chemistry and Qualitative Analysis	5
Chem. 122 - Elementary Quantitative Analysis	5
Chem. 132 - Elementary Organic Chemistry ^{5/}	3
Chem. 133 - Elementary Organic Chemistry	5
Geol. 105 - Agricultural Geology	4
Math. 114 - Plane Trigonometry	2
Physics 101 - General Physics	5
Physics 102 - General Physics	5

^{5/} Chemistry 132 is a terminal course and will not serve as the organic prerequisite for more advanced courses in chemistry, such as biochemistry and others.

Group IV Requirements - Supporting Courses: A minimum of 20 hours will be selected from this group of courses:

	<u>Hours</u>
Accy. 101 - Principles of Accounting ^{1/}	3
Accy. 105 - Accounting Procedure	3
Accy. 108 - Intermediate Accounting	3
Accy. 201 - Fundamentals of Accounting ^{1/}	3
Advt. 281 - Introduction to Advertising	3
Advt. 288 - Sales Writing (same as Rhet. 271)	3
Agr. Ec. 230 - Marketing of Agricultural Products	3
Agron. 101 - Introductory Soils	4
Agron. 240 - Introduction to Applied Statistics	3
Agron. 303 - Soil Fertility	3
Agron. 304 - Soil Management and Conservation	3
Agron. 326 - Weeds and Their Control	3
Bot. 303 - Comparative Morphology: Vascular Plants	3
Bot. 322 - Genetics	4
Bot. 340 - Histological Technic	5
Bot. 345 - Plant Anatomy	4
Bot. 381 - Plant Ecology	5
Chem. 350 - General Biochemistry	3
Chem. 354 - Introduction to Biochemistry	5
Chem. 355 - Biochemistry Laboratory	3
Forestry 262 - Control of Forest Pests and Hazards	3
Hort. 323 - Principles of Plant Breeding	4
I. Admin. 200 - The Legal Environment of Business, or 261 - Summary of Bus. Law	3
L. A. 101 - Intro. to Landscape Architecture	2
L. A. 151 - Plant Material I	3
L. A. 152 - Plant Material II	3
Mktg. 201 - Principles of Marketing	3
Mktg. 211 - Principles of Retailing	3
Mktg. 344 - Consumer Market Behavior	3
Plant Path. 304 - Forest Tree Diseases and Wood Deterioration	3
Plant Path. 306 - Epiphytology - Diagnosis of Plant Diseases	3
Rhet. 251 - Business Writing	3
Rhet. 246 - Modern English Grammar	3
Rhet. 271 - Sales Writing	2

^{1/} Credit may not be earned for both Accy. 101 and 201.

CURRICULUM IN FLORICULTURE AND ORNAMENTAL HORTICULTURE
(for degree of B. S. in Floriculture and Ornamental Horticulture)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

PRESCRIBED COURSES		HOURS	GRADE	GROUP III: Biological and Physical Sciences.	
Agric. 100		0		Minimum of 16 hours	
Botany 100		4		Biological Sciences: A minimum of 6 hours from	
Chem. 101, 102, or 111		5-3		at least <u>two</u> departments: Bot. 230, 231, 160;	
Hort. 122		3		Entom. 101; Hort. 110; Mcbio. 100, 101; Plant	Earned:
Math. Placement Test or				Path. 204 or 301	
Math. 111, or 112		3-5		Physical Sciences: A minimum of 6 hours from	To be
D.G.S. 111 ^{1/}		4		at least <u>two</u> departments including one or more	earned:
D.G.S. 112 ^{1/}		4		courses in Chemistry. Chem. 105, 122, 132,	
P.E.-P.E.		(1-1)		133; Geol. 105; Math. 114; Physics 101, 102	Earned:
P.E.-P.E.		(1-1)			To be
GROUP I: Horticulture--A minimum of					earned:
27 hours from: Hort. 221, 223, 224,					
225, 226, 230, 231, 232, 234, 236,					Total
242, 251, 262, 321, 322				GROUP IV: A minimum of 20 hours from:	Hours
HUMANITIES-Six hour Sequence				Accy. 101, 105, 108, or 201; Advt. 281, 288;	
Sequence Courses:				Agr. Ec. 230; Agron. 101, 240, 303, 304, 326;	Earned:
SOCIAL SCI. Six hour sequence and				Bot. 303, 322, 340, 345, 381; Chem. 350 and	
minimum of 9 hours including:				355, or 354; For. 262; Hort. 323; I. Admin. 200;	To be
Econ. 108		3		L.A. 101, 151, 152; Mktg. 211, 344; Plant Path.	earned:
Sequence Courses: Second Dept.:				304, 306; Rhet. 246, 271	
				OPEN ELECTIVES	
					TOTAL
					HOURS

130 hours, excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work. (5/1/64)

^{1/} Rhetoric 101, 102, and Speech 101 may be substituted for D.G.S. 111 and 112.

FOOD SCIENCE CURRICULUM
(for the degree, Bachelor of Science in Food Science)

This program is designed for students who wish to prepare for employment as food production, quality control, research, or technical sales workers in governmental agencies, educational institutions, and such food-processing industries as canning, freezing, fermenting, milling and baking, vegetable oil processing, and confection manufacturing. A total of 130 hours of credit is required for graduation, exclusive of physical education. Students are strongly urged to engage in at least one summer of employment in selected food-processing industries and are required to go on a senior inspection trip of three days' duration. This trip costs about \$20.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Chem. 101 or 102--Gen. Chem.	4-3	Chem. 105--Inorganic Chemistry	
D.G.S. 111--Verbal Communication	4	and Qualitative Analysis	5
Math. 111--Algebra, or		D.G.S. 112--Verbal Communication	4
Math. 112--College Algebra ^{1/}	5-3	Math. 114--Plane Trigonometry ^{1/}	2
Physical Education	(1)	Physical Education	(1)
Electives	3-7		
Total	16-17	Total	16

Second Year

Chem. 122--Elem. Quan. Analysis	5	Chem. 133--Elem. Org. Chem.	5
Math. 122--Analytic Geometry ^{1/}	4	Math. 132--Calculus	5
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Elec., and Magn.)	5
Physical Education	(1)	Physical Education	(1)
Electives	0-3	Elective	0-2
Total	15-18	Total	16-18

Third Year

Mcbio. 100 & 101--Intro. Mcbio.	5	Mcbio. 311--Food & Indus. Mcbio.	3
Chem. 340--Elem. Phys. Chem. ^{2/}	4	Mcbio. 312--Tech. of Appl. Mcbio.	2
Chem. 341--Elem. Phys. Chem. Lab. ^{2/}	1	F. Sci. 202--Processing and Quality	
F. Sci. 201--Principles of Food		Evaluation of Dairy & Food Prod.	3
& Dairy Prod. Processing	3	Electives	9
F. Sci. 260--Raw Materials for			
Processing	4		
Elective	0-2		
Total	17-19	Total	17

^{1/} Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test may begin their college mathematics with analytic geometry.

^{2/} Students adequately qualified may substitute Chem. 342 and 344 for Chem. 340 and 341.

Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 354--Intro. to Biochem. or Chem. 350 <u>and</u> 355--General Biochemistry	5-6	F. Sci. 206--Inspection Trip	0
F. Sci. 301--Food Processing	4	F. Sci. 302--Food Processing	4
F. Sci. 363--Intro. to Process Engr.	3	F. Sci. 332--Principles of Sanita- tion in the Processing and Handling of Foods	2
Electives	<u>3-4</u>	Electives	10
Total	<u>16</u>	Total	<u>16</u>

Humanities: An approved six-hour sequence. (See page 13.)

Social Sciences: An approved six-hour sequence plus three hours approved social science elective. (See page 14.)

CURRICULUM IN FOOD SCIENCE
(for the Degree of B. S. in Food Science)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

PRESCRIBED COURSES:	HOURS	GRADE	HUMANITIES-Six Hour Sequence	Sequence Courses
Agric. 100	0			
Mcbio. 100	3			
Mcbio. 101	2			
Mcbio. 311	3			
Mcbio. 312	2			
Botany 100	4		SOCIAL SCI.-Six hour sequence and three hours of approved elective:	
Chem. 101 or 102	4-3			Sequence Courses
Chem. 105	5			
Chem. 122	5			
Chem. 133	5			
Chem. 340-341 ^{1/}	4-1			Second Dept.
Chem. 354 or	5			
Chem. 350 and 355	6			
D. G. S. 111 ^{2/}	4		OPEN ELECTIVES	
D. G. S. 112 ^{2/}	4			
F. Sci. 201	3			
F. Sci. 202	3			
F. Sci. 206	0			
F. Sci. 260	4			
F. Sci. 301	4			
F. Sci. 302	4			
F. Sci. 332	2			
F. Sci. 363	3			
Math. Placement Test or				
Math. 111 or 112	5-3			
Math. 114	2			
Math. 122	4			
Math. 132	5			
Physics 101	5			
Physics 102	5			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			
				TOTAL HOURS

1/ Students adequately qualified may substitute Chem. 342 and 344, Physical Chemistry, for Chem. 340 and 341.

2/ Rhetoric 101, 102, and Speech 101 may be substituted for D.G.S. 111 and 112.

130 hours, exclusive of P.E., are required for the degree. A minimum average of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

(5/1/64)

FOREST PRODUCTION CURRICULUM
(for the degree of B.S. in Forestry)

The curriculum in forest production prepares students for various activities in the establishment, protection, management, and utilization of timber crops and forested lands. Graduates are qualified for employment by public agencies or in private industry. A summer camp of eight weeks is required for all students. This should come between the second and third years. Most of the instruction is given at Camp Rabideau, Blackduck, Minnesota. Estimated cost of \$225 includes tuition, fees, transportation, meals, and lodging.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lectures for Freshmen in Agriculture	0	Chem. 101 or 102--Gen. Chem.	4-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry ^{1/}	2
Math. 111 or 112--Algebra ^{1/}	5-3	Rhet. 102--Rhetoric and Comp.	3
Rhet. 101--Rhetoric and Comp.	3	Speech 101--Prin. of Effective Speaking	3
Physical Education	(1)	Physical Education	(1)
Total	<u>14-16</u>	Total	<u>15-16</u>

Second Year

Civil Eng. 200--Gen. Surveying	3	Agron. 240--Intro. to Applied Statistics	3
Forestry 111--Dendrology	4	Chem. 132--Elementary Organic Chemistry	3
Geol. 105--Agricultural Geology	4	Physics 102--General Physics (Light, Elec., and Magn.)	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Zoology 104--Elementary Zoology	4
Physical Education	(1)	Physical Education	(1)
Total	<u>17</u>	Total	<u>16</u>

Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		<u>2</u>
Total		8

^{1/} Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test are exempt from both subjects. Students who are exempt from mathematics should choose other courses from the list of recommended electives.

Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Botany 230--Plant Physiology	3	Agron. 101--Introductory Soils	4
Botany 231--Plant Physiology Lab.	2	Econ. 108--Elements of Economics	3
Forestry 212--Foundations of Silviculture	4	For. 235--Harvesting and Use of Wood Products	4
Forestry 222--Advanced Forest Mensuration	3	Forestry 271--Wood Anatomy and Identification	4
Forestry 362--Forest Entomology	3	Humanities or Social Sciences ^{1/}	3
Humanities or Social Sciences ^{1/}	3		
Total	<u>18</u>	Total	<u>18</u>

Fourth Year

<u>First Semester</u> ^{2/}		<u>Second Semester</u>	
Forestry 213--Silviculture	4	Forestry 252--Forest Valuation and Finance	3
Forestry 229--Forest Aerial Photo Interpretation ^{3/}	3	Plant Path. 304--Forest Tree Diseases and Wood Deterioration	3
Forestry 241--Foundations of American Forest Management	3	Humanities or Social Sciences ^{1/}	6
Forestry 251--Forest Economics	3	Electives	6
Forestry 261--Forest Fire Con- trol and Use	2		
Forestry 315--Forest Soils	2		
Total	<u>17</u>	Total	<u>18</u>

Recommended Electives

Agron. 110--Plant and Animal Genetics	3
Botany 160--Introductory Plant Taxonomy	3
Forestry 272--Physical and Mechanical Properties of Wood	3
Rhet. 151--Business Letter Writing	3
I. Adm. 261--Summary of Business Law	3
Geo. 111--Introduction to Meteorology	3
Zoology 342--Wildlife Management and Conservation	3

A minimum of 136 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

- ^{1/} Humanities and Social Sciences: must include an approved six hour sequence in each. (See pages 13 and 14.)
- ^{2/} The work of this semester will be arranged so that several extended field trips may be taken in the first half of the semester.
- ^{3/} On a temporary basis, Geography 378, Descriptive Interpretation of Aerial Photography, may be substituted for Forestry 229.

11.

CURRICULUM IN FOREST PRODUCTION
(for degree of S.S. in Forestry)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____
DATE _____

PRESCRIBED COURSES	HOURS	GRADE	PRESCRIBED FORESTRY COURSES	HOURS	GRADE	
Agric. 100	0		For. 101	3		
			For. 111	4		
Agron. 101	4		For. 211*	3		
Agron. 240	3		For. 212	4		
			For. 213	4		
			For. 221*	3		
Botany 100	4					
Botany 230	3					
Botany 231	2		For. 222	3		
			For. 229 or Geography 378	3-4		
Chem. 101 or 102	4-3		For. 231*	2		
Chem. 132	3		For. 235	4		
			For. 241	3		
			For. 251	3		
			For. 252	3		
Civ. Eng. 200	3		For. 261	2		
			For. 271	4		
			For. 315	2		
Gen. Eng. 101	3		For. 362	3		
			HUMANITIES-Six Hour Sequence			Sequence Courses
Geology 105	4					
Math. placement Test or Math. 111 or 112	5-3		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including:			Sequence Courses
Math. 114	2		Econ. 108	3		
Physics 101	5					
Physics 102	5					Second Dept.
Plant Path. 304	3					
Zoology 104	4		OPEN ELECTIVES:			
Rhet. 101	3					TOTAL HOURS
Rhet. 102	3					
Speech 101	3					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

136 hours of credit, excluding P.E. and including eight credit hours earned in summer camp*, are required for graduation. A minimum of 3.0 is required for graduation. Students who transfer credits have a minimum average of 3.0 in all courses taken at the U. of I. and combined average of 3.0 for transfer and U. of I. work. (5/1/64)

CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION
(for the degree of B.S. in Forestry)

The curriculum in wood technology and utilization prepares students to work with wood as a raw material. These specialists will enter positions which deal with the physical and mechanical properties of wood. They will be concerned with using wood in new and better ways, with the seasoning, manufacturing, purchase, sale, preservative or fire-retardant treatment, gluing, or finishing of wood. A minimum of ten weeks of non-credit summer industrial experience must be served with some wood-conversion or wood-using industry. This experience usually comes between the junior and senior years.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lectures for Freshmen in Agriculture	0	Chem. 101 or 102--General Chem.	4-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing ^{1/}	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry ^{1/}	2
Math. 111 or 112--Algebra ^{1/}	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	3	Speech 101--Principles of Effective Speaking	3
Physical Education	(1)	Physical Education	(1)
Total	14-16	Total	15-16

Second Year

Chem. 132--Elementary Organic Chemistry	3	Agron. 240--Intro. to Applied Statistics	3
Forestry 111--Dendrology	4	Chem. 105--Inorganic Chemistry and Qualitative Analysis	5
Math. 122 or 123--Analytic Geometry	4-5	Physics 102--General Physics (Light, Elec., and Magnetism)	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physical Education	(1)
Physical Education	(1)	Humanities or Social Sci. ^{2/}	3
Total	17-18	Total	17

Forestry Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
Total		8

- ^{1/} Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test are exempt from both subjects. Students who are exempt from mathematics should choose other courses from the list of recommended electives.
- ^{2/} Humanities and Social Sciences: Must include an approved six hour sequence in each.

Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Botany 230--Plant Physiology	3	Economics 108--Elements of Econ.	3
Botany 231--Introductory Plant Physiology Laboratory	2	Forestry 235--Harvesting and Use of Wood Products	4
Forestry 222--Advanced Forest Mensuration	3	Forestry 271--Wood Anatomy and Identification	4
T.A.M. 171--Elements of Mechanics	3	Plant Path. 304--Forest Tree Diseases and Wood Deterioration	3
Humanities or Social Sciences ^{1/}	6	T.A.M. 172--Strength of Materials	3
Total	<u>17</u>	Total	<u>17</u>

Summer Industrial Experience: A minimum of 10 weeks employment preceding the senior year to be served with some wood-conversion or wood-using industry is required. The employer will be asked to rate the student. The student is required to submit a report of his experience.

Fourth Year

Forestry 234--Wood Seasoning	2	Forestry 252--Forest Economics II	3
Forestry 251--Forest Economics I	3	Forestry 273--Glues, Plywood, and Laminates	4
Forestry 272--Physical and Mechanical Properties of Wood	3	Forestry 274--Wood Preservation	3
Humanities or Social Sciences ^{1/}	3	Forestry 275--Seminar in Wood Science	2
Electives	6	Electives	6
Total	<u>17</u>	Total	<u>18</u>

Recommended Electives

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Accy. 201	Fundamentals of Accounting	3
Ind. Adm. 261	Summary of Business Law	3
Chem. 122	Elementary Quantitative Analysis	5
Ind. Eng. 233	Industrial Quality Control	3
Math. 132	Calculus	5
Math. 142	Calculus	3

A minimum of 136 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

^{1/} Humanities and Social Sciences: Must include an approved six hour sequence in each. (See pages 13 and 14.)

CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE
Office of Associate Dean

NAME _____

DATE _____

PREScribed COURSES	HOURS	GRADE	PREScribed FORESTRY	HOURS	GRADE	
Agric. 100	0		For. 101	3		
			For. 111	4		
Agron. 240	3		For. 211*	3		
			For. 221*	3		
			For. 222	3		
Botany 100	4		For. 231*	2		
Botany 230	3		For. 235	4		
Botany 231	2					
			For. 234	2		
			For. 251	3		
Chem. 101 or 102	4-3		For. 252	3		
Chem. 105	5		For. 271	4		
Chem. 132	3		For. 272	3		
			For. 273	4		
Gen. Eng. 101	3		For. 274	3		
			For. 275	2		
			Summer Ind. Exp. Report	0		
Math. Placement Test or						
Math. 111 or 112	5-3		HUMANITIES-Six Hour Sequence			Sequence Courses
Math. 114	2					
Math. 122 or 123	4-5					
Physics 101	5		SOCIAL SCI.-Six hour sequence and minimum of 9 hours including: Econ. 108			Sequence Courses
Physics 102	5					
Plant Path. 304	3					Second Dept.
T.A.M. 171	3					
T.A.M. 172	3					
Rhet. 101	3		OPEN ELECTIVES:			TOTAL HOURS
Rhet. 102	3					
Speech 101	3					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

136 hours of credit, excluding P.E., and including eight credit hours earned in summer camp*, are required for graduation. A minimum of 3.0 is required for graduation. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and combined average of 3.0 for transfer and U. of I. work. (5/1/64)

PREVETERINARY MEDICAL PROGRAM

Students applying for admission to the preveterinary program must rank in the upper half of their high school graduating classes. They must maintain at least a 3.5 average to remain in the program; otherwise they are transferred to the core curriculum.

Students transferring with advanced standing must have maintained at least a 3.5 average in terms of the University's grading system.

A minimum of 3.5 average and sixty semester hours, exclusive of physical education and military training, are required for admission to the College of Veterinary Medicine.

<u>First Year</u>			
<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Biol. 110--Principles of Biology I	4	Biol. 111--Principles of Biology, II	4
Chem. 101 or 102--Gen. Chem.	4-3	Chem. 105--Inorg. & Qualit. Analysis	5
Math. 114--Plane Trig., or		Rhet. 102--Rhet. and Comp.	3
Math. 104--Alg. & Trig., or		Physical Education	(1)
Elective ^{1/}	2-4	Elective	4-5
Rhet. 101--Rhet. and Comp.	3		
Physical Education	(1)		
Total	<u>14-16</u>	Total	<u>17-18</u>
<u>Second Year</u>			
Chem. 122--Elem. Quant. Analysis or		Chem. 133--Elem. Org. Chem. or	
Chem. 133--Elem. Org. Chem.	5	Chem. 122--Elem. Quant. Analysis	5
Language ^{2/}	4	Language ^{2/}	4
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Elec., and Magnetism)	5
Physical Education	(1)	Physical Education	(1)
Elective	0-4	Elective	0-4
Total	<u>15-19</u>	Total	<u>15-19</u>

Electives must include at least seven hours in not less than two of the following fields: economics (including agricultural economics), fine arts, language, geography, history, literature, philosophy, political science, psychology, sociology, speech. (Note that the program outlined above provides eight hours of language credit. Since only six hours of language are required for admission to the College of Veterinary Medicine, the two extra hours can be applied to the nine hours of electives in the listed fields, thus reducing them to seven. Students who take D.G.S. 111 and 112, totaling 8 hours, in place of Rhetoric 101 and 102, may also apply two hours of this credit, as oral communications-speech, toward the required electives.)

Students who take Chemistry 102 and no mathematics, or no foreign language (by virtue of exemption based on high school credits), will need additional hours from the above group of electives, or from free electives, to bring their total hours to sixty.

- ^{1/} Students who have at least one-half unit in high school trigonometry are not required to take any mathematics. Such students should select a 3- or 4-hour course from the required elective group for their first semester.
- ^{2/} Three or more years of credit in one language in high school is accepted as fulfilling the language requirement. Exemption from Language 101 (language placement test) and completion of Language 102 also satisfy the foreign language requirement.

CURRICULUM IN RESTAURANT MANAGEMENT
(for the degree of Bachelor of Science in Restaurant Management)

The curriculum in restaurant management prepares students (both men and women) for managerial positions in restaurants and other commercial food service units. It also gives them basic training for work as purchasing agents, kitchen equipment and layout specialists, food inspectors, and other allied occupations. A total of 126 hours of credit, excluding physical education, is required for graduation. Two one-day field trips are required: (1) orientation to metropolitan restaurants, fall; and (2) National Restaurant Association annual meeting, spring. Estimated costs: \$15 each trip.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Accy. 101--Prin. of Acctg.	3	Accy. 105--Acctg. Procedure	3
Agric. 100--Lect. for Freshmen Literature	0	Chem. 132--Elem. Organic Chem. Literature	3
Chem. 101 or 102 or 111--Gen. Chem.	3	Rhet. 102--Rhet. and Comp.	3
Rhet. 101--Rhet. and Comp.	5-3	Speech 101--Principles of Effective Speaking	3
Physical Education	3	Physical Education	(1)
	(1)		
<u>Total</u>	<u>14-15</u>	<u>Total</u>	<u>16</u>

Second Year

Econ. 108--Elements of Econ.	3	Mktg. 201--Prin. of Mktg.	3
Home Econ. 132--Foods and Nutrition	3	Mcbio. 100 & 101--Intro. Mcbio.	3-2
Physiol. 103--Intro. to Human Physiology	4	Psych. 103--Human Behavior	4
Physical Education	(1)	Soc. 100--Principles of Soc.	3
Electives	4-7	Physical Education	(1)
<u>Total</u>	<u>15-18</u>	<u>Total</u>	<u>16</u>

Third Year

An. Sci. 104--Selection and Use of Meats	2	Accy. 108--Intermed. Acctg.	3
Ind. Adm. 261--Summary of Bus. Law	3	Home Econ. 240--Quantity Food Prod. and Service	5
Econ. 240--Labor Problems	3	Ind. Adm. 101--Industrial Org. and Management	3
Home Econ. 220--Dietetics	3	Rhet. 151--Bus. Letter Writing	3
Home Econ. 231--Foods	3	Elective	3
Home Econ. 253--Restaurant Interiors ^{1/} , or Electives	3		
<u>Total</u>	<u>17</u>	<u>Total</u>	<u>17</u>

Fourth Year

Home Econ. 253--Restaurant Interiors ^{1/} , or Electives	3	Home Econ. 350--Inst. & Rest. Mgt.: Org. & Admin.	4
Home Econ. 345--Inst. & Rest. Mgt.: Food Pur. & Equip. Select.	3	Home Econ. 355--Spec. Quant. Food Prod. & Mgt.	3
Ind. Adm. 248--Personnel Admin.	3	Electives	9-11
Electives	8-9		
<u>Total</u>	<u>17-18</u>	<u>Total</u>	<u>16-18</u>

Note: Two summers of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years.

^{1/} Offered in alternate years.

DATE _____

TOTAL
HOURS

*Two summers (or equivalent) of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years. Students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work. Minimum average of 3.0 is required for graduation. 126 hours, excluding P.E., are required for the degree as outlined above. (5/1/64)

PRESIDENT DAVID D HENRY
~~101 WILSON HALL~~

278 Admin.

UNIVERSITY OF ILLINOIS-URBANA



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